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THE MAINE BULLETIN

VOL. VIII

NOVEMBER, 1905

NO. 3

CATALOGUE

OF

THE UNIVERSITY OF MAINE

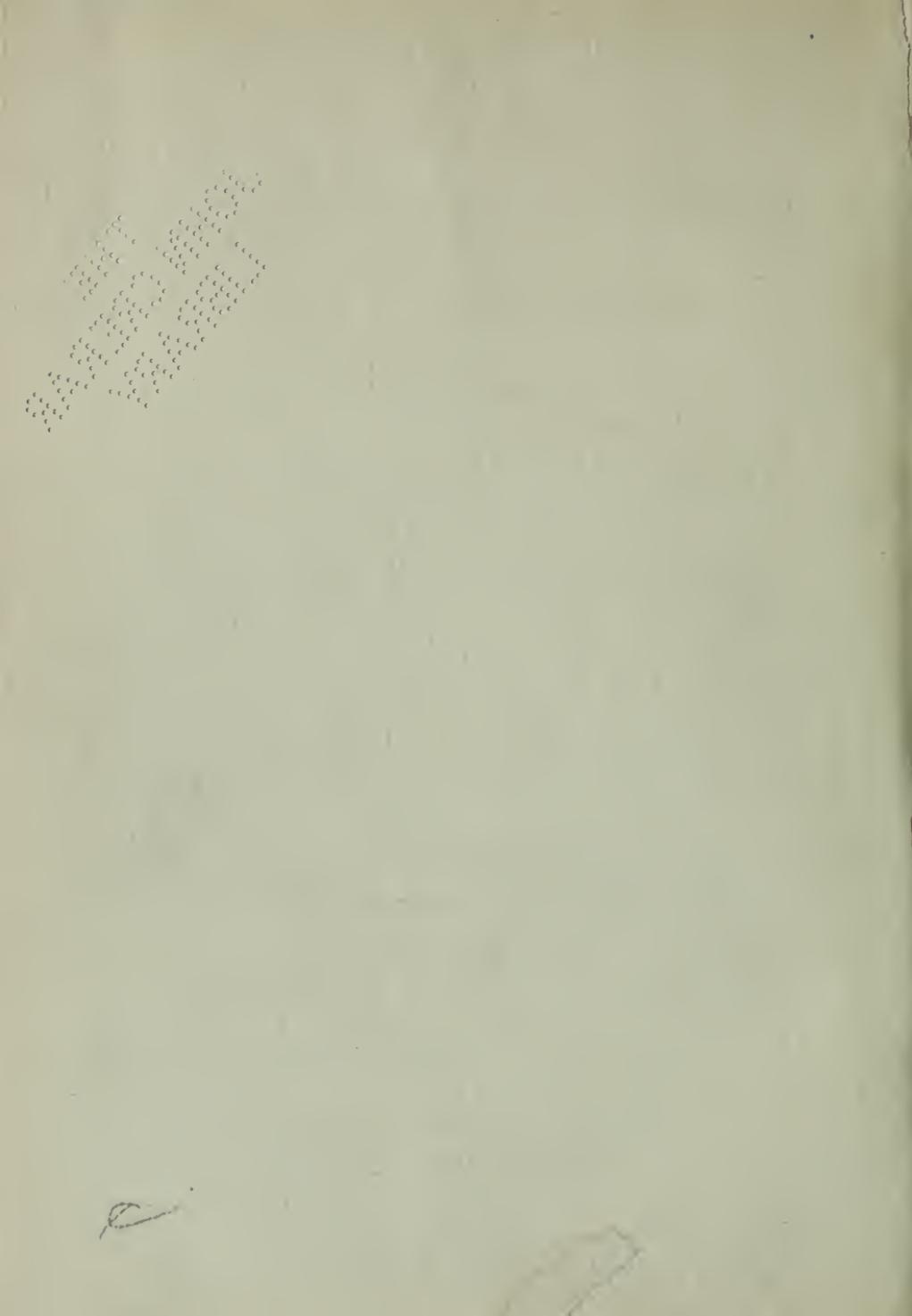
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1905-1906

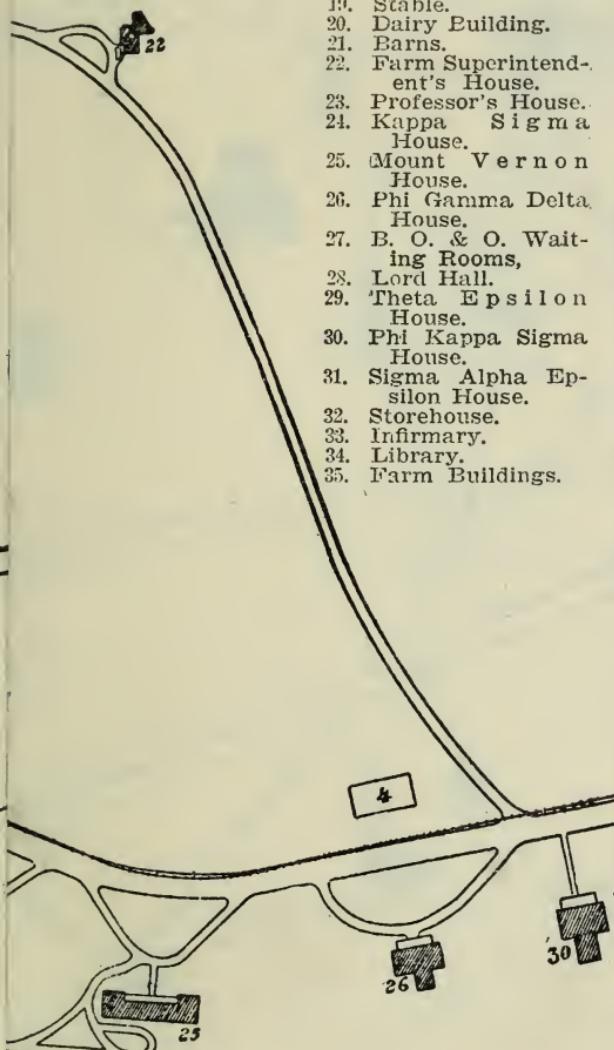
Published Monthly by the University

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KEY TO MAP.

1. Athletic Field.
2. Grand Stand.
3. Beta Theta Pi House.
4. Tennis Courts.
5. Pumping Station.
6. Janitor's House.
7. Dormitory and Commons.
8. Wingate Hall.
9. Fernald Hall.
10. Power House.
11. Alumni Hall.
12. Art Guild and Y. M. C. A. Building.
13. Coburn Hall.
14. President's House.
15. Observatory.
16. Horticultural Buildings.
17. Experiment Station.
18. Professors' Houses.
19. Stable.
20. Dairy Building.
21. Barns.
22. Farm Superintendent's House.
23. Professor's House.
24. Kappa Sigma House.
25. Mount Vernon House.
26. Phi Gamma Delta House.
27. B. O. & O. Waiting Rooms,
28. Lord Hall.
29. Theta Epsilon House.
30. Phi Kappa Sigma House.
31. Sigma Alpha Epsilon House.
32. Storehouse.
33. Infirmary.
34. Library.
35. Farm Buildings.





ANNE STRAWHITTE

CATALOGUE
OF THE
UNIVERSITY OF MAINE

1905-1906



ORONO, MAINE

AUGUSTA, MAINE
KENNEBEC JOURNAL PRINT
1905

R.L.

CALENDAR

FALL TERM, 1905

September 18, Monday,	Arrearage examinations begin.
September 19, Tuesday,	Entrance examinations begin.
September 20, Wednesday,	Registration begins, 1.30 P. M.
September 21, Thursday,	Fall term begins.
November 21, Tuesday,	Meeting of the Board of Trustees.
November 29, Wednesday,	Thanksgiving recess begins, 12 M.
December 4, Monday,	Thanksgiving recess ends, 7.45 A. M.
December 8, Friday,	Sophomore prize declamations.
December 22, Friday,	Christmas recess begins, 5.30 P. M.
December 29, Friday,	Arrearage examinations begin (Spring term studies).

1906

January 2, Tuesday,	Christmas recess ends, 12 M.
February 2, Friday,	Fall term ends.

SPRING TERM, 1906

February 3, Saturday,	Registration.
February 5, Monday,	Spring term begins.
April 18, Wednesday,	Easter recess begins, 5.30 P. M.
April 23, Monday,	Arrearage examinations begin (Fall term studies).
April 25, Wednesday,	Easter recess ends, 7.45 A. M.
June 9, Saturday,	Junior exhibition.
June 10, Sunday,	Baccalaureate address.
June 11, Monday,	Convocation.
June 11, Monday,	Class day.
June 11, Monday,	Reception by the President.
June 12, Tuesday,	Meeting of the Board of Trustees.
June 12, Tuesday,	Receptions by the fraternities.
June 12, Tuesday,	Address before the Phi Kappa Phi Society.
June 13, Wednesday,	COMMENCEMENT.
June 13, Wednesday,	Commencement dinner.
June 13, Wednesday,	Meeting of the Alumni Association.
June 13, Wednesday,	Commencement concert.
June 14, Thursday,	Entrance examinations begin.
July 2, Monday,	Summer term begins.
August 3, Friday,	Summer term ends.

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The University of Maine

FALL TERM, 1906

September 17, Monday,	Arrearage examinations begin.
September 18, Tuesday,	Entrance examinations begin.
September 19, Wednesday,	Registration begins, 1.30 P. M.
September 20, Thursday,	Fall term begins.
November 27, Tuesday,	Meeting of the Board of Trustees.
November 28, Wednesday,	Thanksgiving recess begins, 12 M.
December 3, Monday,	Thanksgiving recess ends, 7.45 A. M.
December 7, Friday,	Sophomore prize declamations.
December 21, Friday,	Christmas recess begins, 5.30 P. M.
December 29, Saturday,	Arrearage examinations begin (Spring term studies).

1907

January 1, Tuesday,	Christmas recess ends, 12 M.
February 1, Friday,	Fall term ends.

SPRING TERM, 1907

February 2, Saturday,	Registration.
February 4, Monday,	Spring term begins.
June 12, Wednesday,	COMMENCEMENT.

CALENDAR OF THE COLLEGE OF LAW

1905

October 4, Wednesday,	Fall term begins.
December 20, Wednesday,	Fall term ends.

1906

January 10, Wednesday,	Winter term begins.
March 21, Wednesday,	Winter term ends.
March 28, Wednesday,	Spring term begins.
June 13, Wednesday,	COMMENCEMENT.
October 3, Wednesday,	Fall term begins.
December 19, Wednesday,	Fall term ends.

1907

January 9, Wednesday,	Winter term begins.
March 20, Wednesday,	Winter term ends.
March 27, Wednesday,	Spring term begins.
June 12, Wednesday,	COMMENCEMENT.

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Catalogue

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Mr. Jones, Mr. Morley, Professor Thompson.

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Director Woods, Professor Munson, Professor Stevens.

Summer Term

Dean Stevens.

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Juniors: Mr. Lekberg, Mr. Malloy.

THE UNIVERSITY OF MAINE ESTABLISHMENT

By an act of Congress, approved July 2, 1862, it was provided that there should be granted to the states, from the public lands, "thirty thousand acres for each Senator and Representative in Congress," from the sale of which there should be established a perpetual fund, "the interest of which shall be inviolably appropriated by each state which may take and claim the benefit of this act, to the endowment, support and maintenance of at least one college where *the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life.*" The act forbade the use of any portion of the principal or interest of this fund for the purchase, erection, or maintenance of buildings and required each state taking the benefit of the provisions of the act "to provide within five years not less than one college" to carry out the purposes of the act.

Maine accepted this grant in 1863, and in 1865 constituted "a body politic and corporate, by the name of the Trustees of the State College of Agriculture and the Mechanic Arts." The trustees were authorized to receive and hold donations, to select the professors and other officers of the college, to establish the conditions for admission, to lay out courses of study, to grant degrees, and to exercise other usual powers and privileges.

The Governor and Council were given the right "to examine into the affairs of the college, and the doings of the trustees, and to inspect all their records and accounts, and the buildings and premises occupied by the college."

It was provided that in addition to the studies especially required by the Act of Congress, the college should teach such other studies as its facilities would permit.

The Legislature of 1897 changed the name of the institution to "The University of Maine."

ENDOWMENT AND INCOME

The State of Maine received, under the Act of Congress above referred to, two hundred and ten thousand acres of public land, from which the University has realized an endowment fund of \$118,300. This

The University of Maine

has been increased by a bequest of \$100,000 from Abner Coburn of Skowhegan, who was for many years president of the Board of Trustees. The town of Orono contributed \$8,000, and the town of Oldtown \$3,000, for the purchase of the site on which the buildings stand. The State has appropriated about \$350,000 for the material equipment.

Under an Act of Congress approved March 2, 1887, the University receives \$15,000 annually for the maintenance of the department known as the Agricultural Experiment Station.

Under an Act of Congress approved August 30, 1890, the University receives \$25,000 annually for its more complete endowment and maintenance.

Under an Act of the Legislature, approved March 20, 1897, the University receives \$20,000 annually from the State for current expenses.

Under an Act of the Legislature, approved March 8, 1905, the University receives an additional appropriation of \$12,000 for each of the two years, 1905 and 1906. Student fees and miscellaneous receipts complete the income.

LOCATION

The University has a beautiful and healthful location in the town of Orono, Penobscot county, half way between the villages of Orono and Stillwater, three miles from the city of Oldtown, and nine miles from the city of Bangor. The Stillwater river, a branch of the Penobscot, flows in front of the buildings, forming the western boundary of the campus. Orono is upon the Maine Central Railroad and is easy of access from all parts of the State.

The Bangor, Orono, and Oldtown Electric Railroad runs through the University grounds. Visitors may find it convenient to take the electric cars at Bangor, Veazie, or Oldtown, as the electric road does not run to the railroad station at Orono. Baggage may be sent to Orono by the Maine Central Railroad.

The College of Law is located in the Exchange Building, Bangor, at the corner of Exchange and State streets.

THE BUILDINGS AND THEIR EQUIPMENTS

WINGATE HALL.—One of the most conspicuous buildings on the campus, Wingate Hall, named in honor of William P. Wingate of Bangor, long an honored member of the board of trustees, is a three-story brick structure, rectangular in form, with a handsome clock tower. It was erected for the departments of civil and mechanical engineering, but is at present occupied chiefly by the departments of civil engineering, mechanics and drawing, and physics. On the ground floor are four recitation rooms, instrument rooms, an optical room, and the offices of the professors of civil engineering, and mechanics and drawing. On the

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second floor are the offices and recitation rooms of the professors of physics, Greek, and Latin, the physical laboratories, and the physical apparatus rooms. On the third floor are two large, well lighted drawing rooms for use of the departments of civil engineering and mechanics and drawing, and a filing room containing a collection of blue prints belonging to the department of civil engineering. In the basement are the electrical laboratory of the department of physics, the photometer room, and the cement testing laboratory. On the fourth floor is another photometer room for the use of students in physics.

OAK HALL.—North of Wingate Hall is Oak Hall, a substantial four-story brick building used as a dormitory for men, named in honor of Lyndon Oak of Garland, for many years a useful member of the board of trustees. It contains forty-nine study rooms for students, and is supplied with bath rooms. It is heated by steam, supplied with water, and lighted by electricity. An annex added during the summer of 1903 furnishes accommodations for thirty students more.

FERNALD HALL.—This building, named in honor of Merritt C. Fernald, LL. D., president of the University from 1879 to 1893, is a two-story brick building, situated south of Wingate Hall. It contains fifteen rooms devoted to the departments of chemistry and pharmacy. On the first floor are the quantitative and pharmaceutical laboratories, with offices and private laboratories for the professors of chemistry and pharmacy; upon the second floor are lecture rooms, the qualitative laboratory, the office and private laboratory of the instructor in qualitative analysis, a store room and a recitation room. Under the roof are arranged the mineralogical laboratory, and dark rooms. In the basement is an assay laboratory, a laboratory for water analysis, a room for organic preparations, and store rooms.

COBURN HALL.—Directly south of Fernald Hall is Coburn Hall, named in honor of Abner Coburn of Skowhegan, the chief benefactor of the University. It is a brick building, three stories in height. In the basement and on the first floor are located the reading room and the library, and two recitation rooms. On the second floor are the botanical and zoological laboratories, and recitation rooms for the departments of biology, English, and modern languages. Over the library is the museum. The collections are large and constantly increasing. On the third floor are recitation rooms for the departments of civics, philosophy, and modern languages, the modern language seminary room, and the psychological laboratory.

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ALUMNI HALL.—To the northeast of Coburn Hall stands Alumni Hall, erected in 1900. The front part contains on the ground floor the offices of the president, secretary, and cashier, a board room, two recitation rooms for the use of the military and mathematical departments, and the office of the professor of mathematics; the second floor contains the university chapel with a large pipe organ in the choir gallery. In the basement under the drill hall are the offices of the military instructor and the physical director, the baseball cage, lockers, lavatories, rooms for storage, etc. The dimensions of the drill hall and gymnasium are 100 by 62 feet. This room is encircled by a 9-foot running track suspended from the roof. As a gymnasium it is equipped with complete apparatus of the most approved kind.

THE OBSERVATORY.—The astronomical observatory stands upon a slight elevation to the east of Coburn Hall. The equatorial room is equipped with an eight-inch refractor of the best modern construction, with finding circles, driving-clock, filar micrometer and other accessories. In the transit-room is a Repsold vertical circle of two-inch aperture. These instruments, together with sextants, sidereal chronometer, etc., furnish excellent facilities for instruction in both descriptive and practical astronomy.

LORD HALL.—The Legislature of 1903 appropriated the sum of \$35,000 for the construction and equipment of a new building for the departments of mechanical and electrical engineering. This building consists of a main part 82 x 56 feet in dimensions and two stories in height, and an ell 125 x 42 feet partly of two stories and partly of one story. It contains three recitation rooms, a large drawing room, the shops, suitable laboratories, and offices for the professors and instructors in the two departments concerned. The mechanical laboratory contains a Riehle testing machine of 60,000 pounds capacity; an oil testing machine manufactured by Tinius, Olsen & Co., of Philadelphia, and other oil testing apparatus; belt testing apparatus, steam separators, calorimeters, and injectors. The hydraulic laboratory in the basement contains steam pumps for testing, a pressure tank, and other apparatus for experimenting in the flow of water in pipes, weir measurements, etc. The forge room is newly equipped with down draft forges, manufactured by the B. F. Sturtevant Co., of Boston. The dynamo laboratory is provided with six direct-current dynamos, two alternating-current dynamos, a rotary converter, transformer, ammeters, voltmeters, wattmeters, rheostats, switches, etc., affording accommodations for fifteen students in a section.

HOLMES HALL.—This is a two-story brick building, 81 x 48 feet, standing south of Alumni Hall. The north wing contains the recitation rooms

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for horticulture, agriculture, and biological chemistry, and the office of the professor of agriculture. The remainder of the building is occupied by the Maine Agricultural Experiment Station and is arranged as follows:

On the ground floor are three large laboratories used in the analysis of foods, feeding stuffs, and fertilizers; a reagent room; the office of the chemists; and the office of the veterinarian. The general office and mailing room, the director's office, the laboratory for seed testing and photography, and the entomological laboratory are on the second floor.

In the basement are rooms for the boiler, for the gas machine, for the grinding and preparation of samples, for the calorimeter, and a kitchen used in the experiments upon the food of man, and rooms for the storage of fuel, chemicals and glass ware. The large attic is used for the storage of samples and supplies. With the exception of the thermometers and rain gauge, the meteorological apparatus is in this building. The building is heated by steam, supplied with gas and electricity, and is thoroughly equipped with apparatus for the work of agricultural investigation.

THE POWER HOUSE.—A wooden building, 30 x 56 feet, just north of Alumni Hall, contains two boilers, of one hundred and fifty, and one hundred horse power, respectively, a fifty horse power Corliss engine, a fifteen horse power Otto gasoline engine, and the dynamos, which comprise the lighting plant. Students in the Electrical Engineering Course receive instruction in the care and running of this equipment.

THE HORTICULTURAL BUILDING.—The greenhouses, offices and laboratories for horticultural work lie just east of Holmes Hall. The greenhouses cover about 4000 square feet of surface, are heated with hot water, and furnish ample opportunity for the demonstration of the practical culture of flowers and vegetables under glass. In this building is an herbarium of economic plants, which is of increasing interest and value.

THE DAIRY BUILDING.—The Dairy Building, 50 x 42 feet, contains a milk room, a butter room, a cheese room, a cold storage room, a cheese curing room, a lecture room, the office of the professor of animal industry, and a laboratory. It is supplied with all necessary appliances for teaching the most approved methods of handling milk, cream, butter, and cheese. The building is heated with steam and supplied with hot and cold water. Power is furnished by a six horse power engine.

THE FARM BUILDINGS.—The lower barn, 100 x 50 feet, contains a modern tie-up with 26 stalls, two grain rooms, two bull rooms, nursery, calf room, and silo, and has storage capacity for 150 tons of hay and 100

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tons of silage. The upper barn, 100 x 40 feet, contains a class room for instruction in stock judging, stalls and pens for digestion experiments, rooms for grain and storage, scales for weighing animals, an electric motor for power and a mill for grinding. The barns are lighted by electricity and supplied with water and steam. The basements of the barns contain storage rooms for manure and roots, and pens for swine. The sheep barn, 125 x 20 feet, is of special design and contains six large pens, a nursery, and a storage room. The poultry plant consists of an incubator house, 31 x 31 feet, a warmed breeding house 150 x 15 feet, a curtain front house, 150 x 14 feet, and another, 120 x 16 feet. These houses accommodate 1,000 mature birds. There are also detached brooder houses capable of caring for 2,500 chicks. Two tool houses furnish about 10,000 square feet of floor room for the storage of wagons and farm machinery.

THE Mt. VERNON HOUSE.—This is a wooden building, completed in 1898, to furnish dormitory accommodations for women. It is situated near the recitation and laboratory buildings, upon a site overlooking the campus and commanding a beautiful view of the river, villages, and mountains. It is two stories in height, built in the old colonial style, and consists of a long central portion and two wings. It contains a parlor, dining room, kitchen, bath room, and sixteen study rooms, each intended for two students. The rooms are large, well lighted, heated by a combined system of hot air and hot water, and provided with electric lights. A special feature is the long hall on each floor, extending sixty-six feet upon the front of the building, and wide enough to serve as an assembly or study room. The building, and the students who live in it, are under the supervision of a competent matron.

THE FRATERNITY HOUSES.—Eight of the student fraternities occupy club houses. Six of the houses are on the campus, and two in the village of Orono. They are large, well arranged houses, affording rooms for about twenty-five students each. Several of the fraternities maintain their own boarding establishments under the supervision of matrons.

THE ART MUSEUM.—The collection of casts, framed pictures, photographs, and engravings belonging to the University Guild occupies quarters in a frame building a little northeast of Wingate Hall. Its main room for exhibition purposes measures 30 x 40 feet, and contains about three thousand reproductions of various works of art, chiefly of the renaissance period.

THE INFIRMARY.—A small wooden building has recently been erected on the back campus, to be used in caring for any cases of infectious

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disease that might appear among the students. It contains a ward for women, as well as one for men, with sanitary, comfortable, and convenient equipment for possible patients.

OTHER BUILDINGS.—In addition to the buildings already described, there are several others devoted to various purposes. Among these are the President's house, the Commons or general boarding house, and three residences occupied by members of the faculty.

THE ATHLETIC FIELD.—Alumni Field, so called because funds required for its construction were contributed by the Alumni Association, is located at the northwestern extremity of the campus, about 1,200 feet from the Gymnasium. It contains a quarter-mile cinder track, with a 220 yard straightaway, and is graded and laid out for foot ball, base ball, and field athletics.

THE LIBRARY

The library is located in Coburn Hall. It contains twenty-nine thousand bound volumes and eight thousand pamphlets. Some fifteen hundred volumes of special value to the Experiment Station are kept in the Station building; and nearly three thousand law books, in the College of Law. Reference libraries are maintained in departmental rooms by those departments which require them.

More than half the volumes in the library have been added within the last few years. Accessions average about 2,500 annually, and the greater part of these are acquired by purchase. In large part purchases are made of books selected by heads of departments, and this method results in a collection of great working value.

The library is classified according to the Dewey system, slightly modified; there is a card catalogue, author and subject; access to the shelves is entirely unrestricted. Students may borrow three volumes at a time, to be retained three weeks, when they may be renewed unless previously called for; special permission to borrow a larger number may be obtained, when necessary, upon application to the librarian; there is a fine of two cents a day for books kept overtime. Officers and alumni of the University may borrow any reasonable number of volumes without time limit, except that all books must be returned at least nine days before Commencement, and the return of any volume may be required at any time by the library committee. Other responsible persons may obtain the privileges of the library upon application to the librarian. The librarian and his assistants are glad to give advice and assistance at any time.

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During the fall term of each year a series of three lectures is given by the librarian upon, *The Library and Its Use, Classification and the Catalogue, and Reference Books and Their Use.* Attendance upon these is required of freshmen, special students, and others in their first year at the University, with the purpose of giving them some idea of the opportunities the library offers them and suggestions that will aid them in its use.

The librarian also offers an elective course in the spring term, on bibliography, the development of books and libraries, and the principles of library administration. This course consists of lectures, with collateral reference work, one hour a week, and may count for credit towards graduation.

The library is a designated depository for the publications of the United States Congress, and also receives publications of different departments not included in the depository set. All the publications of the State of Maine are received. Through the courtesy of the late Hon. L. D. Carver, State Librarian, public documents of a number of other states are received, in accordance with a series of duplicate exchanges arranged by him.

Over three hundred and fifty of the most important literary, scientific and technical periodicals, both American and foreign, are regularly received. The leading papers of Maine, together with a selected list of daily papers published in the large cities, are on file.

The library is open daily from 8.00 A. M. to 12.00 M., and from 1.30 to 5.30, and 7.00 to 9.30 P. M., Sundays and legal holidays excepted. On Sunday it is open from 2.00 to 5.00 P. M.

MUSEUM OF NATURAL HISTORY

The museum is located in the wing of Coburn Hall and in an adjoining room in the main part of the building and consists of geological, zoological, and botanical collections.

The geological collections embrace the L. H. Merrill collection of illustrative rocks, a general collection of the more important fragmental, crystalline, and volcanic rocks, a collection of the more important building stones, a general collection of the more common minerals, a collection of economic minerals furnished by the National Museum, an educational series of rocks furnished by the U. S. Geological Survey, and a small collection of plant and animal fossils.

The zoological collections comprise a number of the larger mammals of the State, a small set of exotic mammals, a more complete working collection of native birds, illustrative collections of the other groups of vertebrates, a rather large set of the shells of native and exotic molluscs,

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and illustrative collections of the other groups, dry, alcoholic, and prepared as microscopic objects.

The most important collection in the herbarium was presented to the University by Mr. Jonathan G. Clark of Bangor. This is the collection made by the late Rev. Joseph Blake, and includes more than 7000 species of both flowering and flowerless plants. It represents more especially the flora of Maine and other New England States, but includes many forms from the western United States, Mexico, and the West Indies, and a number from many of the European and Asiatic countries, and from Africa and Australia.

The late Professor Harvey left to the herbarium the general collections accumulated during his connection with the University, and his special collection of the weeds and forage plants of Maine, comprising 300 species. Other important collections are Collins's algae of the Maine coast, Halsted's lichens of New England, Halsted's weeds, Ellis and Everhard's North American Fungi, Cook's illustrative Fungi, Underwood's Hepaticæ, Cummings and Semour's North American Lichens, and a collection of economic seeds prepared by the U. S. Department of Agriculture.

ORGANIZATIONS

ASSOCIATIONS.—The following is a list of organizations existing in the University: Philological Club, Deutscher Verein, University Guild, Debating Society, Electrical and Mechanical Society, Civil Engineering Society, Agricultural Society, Honorary Society (Phi Kappa Phi), Young Men's Christian Association, Athletic Association, Glee Club, Instrumental Club, Band.

THE PHILOLOGICAL CLUB.—The Philological Club meets on the first Monday evening of each month except January, during the academic year, for the presentation and discussion of original papers on philological and literary subjects.

THE UNIVERSITY GUILD.—The University Guild has for its object the building up of an art collection, and the promotion of a general interest, among the faculty, students, and friends of the University, in the study of the fine arts. The Guild occupies the Art Museum and holds meetings occasionally during the year. As rapidly as funds permit, casts and photographs of celebrated works of art are being added to the collection already begun.

The course in the history of Italian painting is open to members of the Guild.

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JUNIOR ELECTRICAL AND MECHANICAL SOCIETY.—The Junior Electrical and Mechanical Society aims to unite the interests of the electrical and mechanical students and to keep its members in touch with the practical side of engineering. The society meets each week and topics of practical interest are explained and discussed. All juniors in electrical or mechanical engineering are eligible to membership, and seniors are considered as honorary members.

PHI KAPPA PHI.—The Phi Kappa Phi is an honorary society. At the end of the fall term of the senior year the five members of the class having the highest standing are elected members, and at the end of the year the five next highest in the collegiate department, and two from the College of Law, are added.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION.—The Young Men's Christian Association, composed of students, has for its object the promotion of Christian fellowship and aggressive Christian work. Religious services are held in the Art Museum, and classes for the study of the Bible are conducted on Sunday.

UNIVERSITY PUBLICATIONS

THE ANNUAL CATALOGUE OF THE UNIVERSITY OF MAINE.—This contains descriptions of the courses of study, lists of the trustees, faculty, and students, and other information relating to the University.

THE ANNUAL REPORT OF THE TRUSTEES, PRESIDENT, AND TREASURER, TO THE GOVERNOR AND COUNCIL OF THE STATE.—The report of the trustees and president includes an account of the general affairs and interests of the University for the year, and the report of the Experiment Station. The report for the odd years contains the biennial catalogue of graduates.

THE UNIVERSITY OF MAINE STUDIES.—These are occasional publications containing reports of investigations or researches made by university officers or alumni. The following have been issued:

1. The Effect of Magnetization upon the Elasticity of Rods. J. S. Stevens.
2. The Life History of the Nucula Delphinodonta (Mighels). G. A. Drew.
3. A Preliminary List of Maine Fungi. P. L. Ricker.
4. A Catalogue and Bibliography of the Odonata of Maine. F. L. Harvey.
5. A Study of the Physiographic Ecology of Mount Ktaadn, Maine. L. H. Harvey.

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THE UNIVERSITY CIRCULARS.—These are occasional pamphlets, issued for special purposes. Those now ready for distribution relate to: the Classical Course; the Courses in Agriculture; the Courses in Pharmacy; the College of Law; the Courses in Engineering; Student Expenses.

THE MAINE BULLETIN.—This is a publication issued monthly during the academic year, to give information to the alumni and the general public.

THE ANNUAL REPORT OF THE EXPERIMENT STATION.—This is Part II of the Annual Report of the University.

THE EXPERIMENT STATION BULLETINS.—These are popular accounts of the results of station work which relate directly to farm practice.

THE MAINE CAMPUS.—This is a journal published weekly during the academic year by an association of the students.

THE PRISM.—This is an illustrated annual, published by the junior class.

LECTURES

A course of lectures is given in the University chapel each year. Admission is free to students in all departments. The following is the list for 1905-1906:

November 10 Professor Edward S. Morse, Peabody Academy of Science. Subject: Japan and the Japanese. (Blackboard)

November 24 Professor J. William Black, Colby College. Subject: Historic Spots in Virginia. (Stereopticon)

December 14 Mr. Henry Turner Bailey, North Scituate, Mass. Subject: Structural Design. (Stereopticon and Blackboard)

January 18 Professor Henry L. Chapman, Bowdoin College. Subject: Robert Burns.

February 1 Professor George D. Chase, University of Maine. Subject: The Home of our Prehistoric Ancestors.

February 23 Mrs. Anita Newcomb McGee, Washington, D. C. Subject: A Woman's Experience in the Japanese Army. (Stereopticon)

MILITARY INSTRUCTION

Military instruction is required by law. The department is under the charge of an officer of the regular army, detailed by the President of the United States for this purpose. Cadet rifles, ammunition, and accoutrements are furnished by the War Department. The course has special reference to the duties of officers of the line. The students are organ-

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ized into an infantry battalion of three companies, officered by cadets selected for character, soldierly bearing, and military efficiency. The corps is instructed and disciplined in accordance with rules established by the President of the United States. These rules include the minimum course of instruction that must be covered and the minimum time that must be devoted to this instructoин.

The uniform prescribed by the board of trustees is as follows:

For cadets, a dark blue blouse, cut military academy style, braided with black braid and without other ornament than the word MAINE embroidered in gold on each side of the collar; light blue trousers with dark stripe and blue cap, old army pattern; for commissioned officers, the old regulation dress uniform prescribed for infantry officers of the United States Army; for non-commissioned officers, the same uniform as for privates, with the addition of gilt chevrons on arms of blouse. The total cost of uniforms is \$14.35. The uniforms are procured through an authorized tailor, and are made in the best manner of thoroughly good material. Cadets are required to wear the uniform when on military duty, and may wear the same at other times.

The three seniors who attain the highest standing in the military department are reported to the military secretary to the U. S. Army, and their names are printed in the U. S. Army Register. Cadets who have satisfactorily completed the course in military science receive at graduation a certificate of military proficiency and are reported to the Adjutant General of Maine.

Service in the military department is elective and required as follows (this does not apply to the College of Law and the School Course in Agriculture) :

All students physically qualified are required to take one year's military work during their first year at the University, except that those admitted to advanced standing may elect other work equal to one credit. One credit is allowed for this work. Those physically disqualified are required to elect other work equal to one credit in lieu of military work. Graduation requirements include one year's military work, or a substitute under the above conditions. No fractional credit for military work will count towards graduation. Military instruction is arranged in a four years' course.

The grades and relative rank of officers and non-commissioned officers will be determined by the professor, subject to the approval of the president.

PHYSICAL TRAINING

The gymnasium affords excellent opportunities for physical training and in-door athletics.

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On the first floor are the baseball cage, lockers, baths, and toilet rooms for the accommodation of three hundred and seventy-five students, with space to enlarge these accommodations when necessary.

The gymnasium proper is on the second floor, which has a floor space of 6,550 square feet, with a running track overhead. This main room of the gymnasium is equipped with a large variety of light and heavy gymnastic apparatus and many of the best patterns of modern developing appliances.

From December 1st to April 1st gymnasium work, consisting of drills with Indian clubs, dumb-bells, wands, and bar-bells, also exercises on the heavy apparatus, and gymnasium games, is elective.

PUBLIC WORSHIP

Religious services of a simple character are held in the chapel every day except Saturday and Sunday. All undergraduate students are required to be present. Students receive a cordial welcome at all services in the churches of the village. Voluntary religious services, under the direction of the Young Men's Christian Association, are held weekly.

GENERAL REGULATIONS

The regulations in regard to the selection of studies, standings and grades, absences from recitations and examinations, entrance conditions, leave of absence, attendance upon chapel, penalties, examinations, and athletics, are printed in a small pamphlet, which may be obtained from the secretary.

By these regulations, the quota of regular studies for each student varies from a minimum of fifteen hours, to a maximum of twenty hours of class room work each week. In the application of this rule, two hours of laboratory work, or of other exercises not requiring preparation, count as one hour.

Excuses for absence from individual exercises are not required. Each student is expected to be present at all recitations and other exercises except when imperative reasons require absence. Of these reasons he is the judge; but a student who is absent from ten per cent. or more of the exercises in any study is not admitted to the final examination. A student who fails to pass at an examination, is absent from an examination, or is excluded from an examination, may make up his deficiency at the special examinations held at the times noted in the calendar. The arrearage examinations during the Christmas recess include only studies of the spring term; the examinations during the Easter recess include only studies of the fall term; the examinations at the beginning of the fall term include all the studies of the year. A student who fails to make up an arrearage before the study is again taken in class is required

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to attend recitations in that study, or make up the work under a tutor selected by the faculty.

Each student is given a report of his work shortly after the close of each term. Parents or guardians may obtain these reports upon application to the secretary.

SCHOLARSHIP HONORS

Honors for scholarships are of two kinds, general and special. General honors are awarded, at graduation, to students that attain an average standing, after the freshman year, of ninety on a scale of one hundred. Special honors are granted for the satisfactory completion of an honor course in addition to the work required for a degree in one year. An honor course must involve at least ninety recitations or an equivalent. The methods of work are determined by the instructor, who should be consulted in each case by students desiring to take such a course. Honor courses are open to juniors and seniors that have attained an average standing of eighty per cent. in all previous work, and an average standing of ninety per cent. in all previous work of the department in which the honors are sought. A student cannot register for an honor course without the consent of the faculty, nor later than the fourth week of the fall term. Upon the completion of a course, the student's work will be tested by an examination or thesis, or both, under the direction of the faculty committee on honors, and the result, together with the instructor's report, will be laid before the faculty. Examinations for honors shall be held at such times and places as the committee on honors may appoint. They shall be distinct from any class examinations in the same course, which latter examinations the candidate for honors may or may not take, as he chooses. The honor examination shall be written and, at the discretion of the committee, also oral. The professors giving the courses shall submit to the committee papers for the honor examinations not later than one week before the date set for the examinations.

The students in honor courses involving laboratory or drawing-room work may be tested by examination or thesis or both, at the discretion of the committee. The note books kept in such work shall be submitted to the committee and may take the place of a thesis in case they show practically the whole work of the course. The faculty may grant special honors to those students who receive the approval of the committee, but will not do so if the general work is unsatisfactory. Honors, and their nature, are stated upon the Commencement program and published in the annual catalogue.

The first 15 of the class in rank are authorized to prepare commencement parts; these parts must be submitted to a committee by the close

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of the Easter recess, and from the parts submitted, a certain number are selected by the committee. These parts must be prepared for delivery to the satisfaction of a representative of the faculty.

DEGREES

BACHELOR'S DEGREES

The degree of Bachelor of Arts (B. A.) is conferred upon students that complete a Classical Course.

The degree of Bachelor of Science (B. S.) is conferred upon students that complete the Chemical, Agricultural, Civil Engineering, Mechanical Engineering, Electrical Engineering, Mining Engineering, Forestry, or Pharmacy Course; or that have completed a general course with major work in some one department. The diploma indicates which course has been completed.

The degree of Pharmaceutical Chemistry (Ph. C.) is conferred upon students that complete the Short Pharmacy Course.

The degree of Bachelor of Laws (LL. B.) is conferred upon students that complete the Law Course.

In order to receive degrees at Commencement, candidates must have completed by the close of the Easter recess, at least seven-eighths of all the work required for graduation.

In case of failure to pass in any spring term study, only one special examination shall be given before Commencement, and this shall not be later than the Friday preceding Commencement.

Theses required from candidates for the degree of B. S., must be completed to the satisfaction of the major instructor and deposited in the library, accompanied by the binding fee, not later than twelve o'clock (noon), nine days preceding Commencement.

Candidates for degrees who fail to meet these requirements will not be awarded their degrees, and their names will not appear on the Commencement programme.

ADVANCED DEGREES

For receiving an advanced degree the required preparation must include the attainment of the proper first degree.

The Master's degrees, viz., Master of Arts (M. A.), Master of Science (M. S.), and Master of Laws (LL. M.), are conferred upon holders of the corresponding Bachelor's degrees under either of the following conditions:

(1) One year's work in residence, of a minimum amount equal to not less than six credits (see p. 43), including examinations on a prescribed course of study in a major subject and not more than two minor subjects,

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and the presentation of a satisfactory thesis. In special cases all the work may be done in one department. The course for each candidate must be approved by the committee on advanced degrees not later than the first week in October. A registration fee of \$5.00 is charged, and an additional fee of \$15.00 for examinations and diploma is payable upon the completion of the work. Theses must be submitted not later than May 20. They shall be printed or typewritten, unless the subject matter prevents, on paper of good quality, 8 inches by 10½ inches, with not less than one inch margin on inner edge and half-inch margin on outer edges. They shall be bound in black leather with title on first cover. Drawings accompanying a thesis may be folded and bound with the thesis, or placed in a pocket on the third page of the cover; or, if too many for this, they may be bound separately in size to suit the drawings. The major instructor, on application, will furnish detailed information concerning the form of theses. Candidates are expected to be present in person to receive their degrees.

(2) Two years' work in absence, with examinations at the University, the other conditions as in (1).

The professional degrees of Civil Engineer (C. E.), Mechanical Engineer (M. E.), and Electrical Engineer (E. E.), may be conferred upon graduates of the Civil Engineering, Mechanical Engineering, and Electrical Engineering Courses respectively, upon the presentation of a satisfactory thesis after at least three years of professional work subsequent to graduation. A fee of \$10.00 is required, payable upon presentation of the thesis, which must be submitted not later than May 20. Candidates are expected to be present in person to receive their degrees.

STUDENT EXPENSES

Many students go through college with an annual expenditure of little more than \$200, exclusive of the expense of clothing, traveling, and vacation, and very many earn a part of this sum by vacation work. An estimate of the necessary annual expenses of a student in any department, except the College of Law, may be made from the following table. For the expenses of students in the College of Law reference is made to the article on that College. It should be noticed that clothing, traveling, vacation, society, and personal expenses are not included in the table. These vary according to individual tastes and habits. The table is made up for men students who room in Oak Hall and board at the Commons. The necessary expenses of other students are sometimes lower, but usually slightly higher. In all cases an allowance must be made for personal incidental expenses.

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ANNUAL STUDENT EXPENSES

Tuition, 2 terms at \$15.00,.....	\$30.00 or \$40.00
Registration fee, 2 terms at \$5.00,.....	10 00
Incidentals, 2 terms at \$10.00,.....	20 00
Laboratory fees, (average) about,.....	10 00
Text-books, about,.....	15 00
Board, 36 weeks at \$3.00,.....	108 00
Heat and light for half room, and general care of dormitory	27 00
Total,	\$220.00 or 230 00

The tuition charge is \$15.00 a term, or \$30.00 a year, and all students are subject to this charge except those in the courses in agriculture, for none of which is any *tuition* charge made, but incidental and registration fees are the same as in other courses. Residents of Maine who need assistance and maintain a good record may obtain, from the University, loans to cover the tuition charge. The regulations in regard to these loans are stated on page 34.

Students that are not residents of the State of Maine are charged an annual tuition of \$40.00.

The registration fee of \$5.00 must be paid at the beginning of each term before the student enters any classes.

The incidental fee is \$10.00 a term, or \$20.00 a year, and covers heat and light for public buildings, reading-room charges, care of public rooms, and miscellaneous expenses.

A student obliged to leave the University within two weeks after the beginning of the term may have the foregoing amounts refunded with the exception of the registration fee. A student leaving within the first half of the term receives a rebate of one-half the incidental expenses. No other rebate is made.

The cost of text-books will average about \$15.00 a year for the course. These may be bought at the college store. The expense may be decreased by buying second-hand books and selling them after using them.

Students in the laboratories and shops pay certain charges to cover the cost of materials and maintenance. These charges are as follows:—chemistry, per term, about \$3.00; bacteriology, per course, \$3.00; physics, per course, \$2.00 to \$4.00; pharmacy, per term, about \$3.50; mineralogy, \$2.00; biology, per course, \$1.00 to \$3.00; electrical engineering, per course, \$2.50; mechanical engineering, per course, \$2.00; shop, per course, \$4.00 to \$5.00. Laboratory charges in the civil engineering course are very few, but traveling expenses incurred in

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visiting engineering works will be nearly equivalent to the laboratory expenses of other courses.

The largest item of expense is for board. At the Commons, the university boarding house, the price is about \$3.00 a week. Board may be obtained in clubs or private families at prices ranging from \$2.50 to \$3.50 a week.

The charges for rooms in Oak Hall are seventy-five cents a week for each student, when two occupy a room. This pays for heat and light, and for the lighting and care of the halls and public rooms of the dormitory. Students supply their own furniture. Furnished rooms, with light and heat, may be obtained in the village for \$1.50 a week if occupied by one person, or \$2.00 a week if occupied by two persons.

Women students that do not live at their own homes are required to room and board at the Mt. Vernon House. The price of board is \$3.00 a week. For heat and light, and for the care of the public rooms, the charge is seventy-five cents a week.

Each student is required to deposit with the treasurer a bond, with two good names as sureties, in the amount of \$150.00, to cover term bills. Blanks on which bonds should be made out will be furnished by the secretary upon application. Those who keep a sufficient deposit with the treasurer to cover the bills of one term will not be required to furnish a bond. The deposit required is \$90.00 from those who board at the Commons, or Mt. Vernon House, and \$30.00 from others. This deposit is in addition to the registration fee. No student will be graduated who is in debt to the treasury.

A circular containing a fuller statement in regard to expenses, and treating of the opportunities for self-help, may be obtained upon application.

LOANS

TUITION LOANS

Residents of Maine that need assistance and maintain a satisfactory record may borrow from the university treasury a sum sufficient to pay the tuition charge. This privilege is not extended to students in the College of Law.

Borrowers are required to give notes with satisfactory endorsement. The loans bear interest at six per cent. per annum, and are due \$30.00 a year, beginning with the first year after graduation, but may be paid earlier. No member of the faculty is accepted as an endorser.

Loans are granted by a committee consisting of the president and two other members of the faculty. The number of loans may not exceed one-third of the number of students in the undergraduate departments. Loans are granted to cover the tuition charges of one year at a time.

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The first grant of loans for each university year is made in the preceding June. Applications for loans are considered during May, and to insure attention at this time should be forwarded to the President not later than May 15. A second award is made in the fall term. Applications should be made not later than October 10. They must be made to the President upon blanks to be obtained from the Secretary of the faculty. Awards made in June may be withdrawn from students that do not register, or claim their loans, by October 10.

THE KITTREDGE LOAN FUND

This fund, amounting to nearly one thousand dollars, was established by Nehemiah Kittredge, of Bangor. It is in the control of the president and treasurer of the University, by whom it is loaned to needy students. In the deed of gift it was prescribed that no security but personal notes bearing interest at the prevailing rate should be required. Loans are made on the conditions that the interest shall be paid promptly, and that the principal shall be returned from the first earnings after graduation.

SCHOLARSHIPS AND PRIZES

THE KIDDER SCHOLARSHIP, thirty dollars, was endowed by Frank E. Kidder, Ph. D., Denver, Colorado, a graduate of the University in the class of 1879, to be awarded to a member of the junior class to be selected by the President and the faculty.

THE WESTERN ALUMNI ASSOCIATION SCHOLARSHIP, tuition for the sophomore year, founded by that association, will be awarded to that student taking a regular course, whose deportment is satisfactory, and who shall make the best progress in all studies during his freshman year.

THE JUNIOR EXHIBITION PRIZE, fifteen dollars, will be awarded to that member of the junior class who shall present the best oration at the junior exhibition. In the award of this prize both the composition and the delivery of the oration will be considered.

THE SOPHOMORE DECLAMATION PRIZE, fifteen dollars, for excellence in elocution, will be awarded to the best speaker in the sophomore class.

THE WALTER BALENTINE PRIZE, fifteen dollars, the gift of Whitman H. Jordan, Sc. D., Geneva, N. Y., a graduate of the University in the class of 1875, will be awarded to that member of the junior class who shall excel in biological chemistry.

THE KENNEBEC COUNTY PRIZE, the gift of Hon. William T. Haines, Waterville, a graduate of the University in the class of 1876, will be awarded to that member of the senior class who shall write the best essay on applied electricity.

THE FRANKLIN DANFORTH PRIZE, ten dollars, the gift of the Hon. Edward F. Danforth, Skowhegan, a graduate of the University in the

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class of 1877, in memory of his father, Franklin Danforth, will be awarded to that member of the senior class in the agricultural course who shall attain the highest standing.

THE PHARMACY PRIZE will be awarded to that student in the Pharmacy Department who shall attain the highest standing in chemistry in the last year of his course.

THE HOLT PRIZES, the gift of Erastus Eugene Holt, A. M., M. D., LL. D., of Portland, will be given to the three students of the class of 1908, who show the greatest improvement in their rating. The rating will be determined from deductions made from the gymnasium and class records of the students at the beginning and end of their college course by the mathematical formula for the normal earning ability of the body, devised by Dr. Holt.

THE BOSTON ALUMNI ASSOCIATION SCHOLARSHIP, thirty dollars, will be awarded to that member of the junior class who shall make the most satisfactory progress in all studies during the junior year, and whose deportment is satisfactory, and who shall need financial assistance.

THE NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP, thirty dollars, will be awarded upon conditions to be determined by the board of trustees. In 1905 it was awarded to the student who excelled in debate.

THE PITTSBURG ALUMNI ASSOCIATION SCHOLARSHIP, founded by that association, tuition for one year, upon conditions to be determined by the President of the University.

ADMISSION

GENERAL REQUIREMENTS.—Applicants for admission must pass the required examinations, or present satisfactory certificates of fitness, and file with the Treasurer a bond for \$150 signed by two bondsmen, as security for the payment of term bills. A cash deposit covering the bills of one term will be accepted in place of a bond. In the College of Law the fees must be paid in advance, and no bond or deposit is required. The University admits men and women, both residents of Maine and non-residents.

ADMISSION TO ADVANCED STANDING.—Candidates for advanced standing are examined in the preparatory studies, and in those previously pursued by the classes they propose to enter, or in other equivalent studies; a rank of 80% must be attained before passing any course in advance. Certificates from approved schools are accepted for the preparatory work; but certificates are not accepted for any part of the college work, unless such work has been done in a college. College graduates who wish to enter a technical course are admitted to the junior class without examination.

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SPECIAL RECOMMENDATIONS.—A good preparation in algebra and geometry is most important for those who expect to enter engineering courses. The schools should give a part of the work in algebra and geometry, or a review of these subjects, during the last year.

Students preparing for the classical subjects should devote special attention to Latin composition, Roman history, and constant practice in pronouncing Latin according to the Roman method.

PRELIMINARY EXAMINATIONS.—A candidate who wishes to be examined on part of his work in advance of the year in which he proposes to enter the University may receive credit for such examination, provided he has completed not less than one-half of his preparatory work. It is urged that candidates avail themselves of this privilege so far as possible.

SPECIAL STUDENTS.—Persons not candidates for a degree, who wish

The Maine Dairy Association offers three prizes to students in the school course in agriculture, for the best essays on subjects pertaining to dairying. The prizes are \$15.00, \$10.00, and \$5.00.

Mr. L. C. Bateman of the Lewiston Journal offers a prize of \$10.00 for the best essay on stable sanitation, by any student in any agricultural course.

Mr. H. E. Cook of Denmark, N. Y., and Mr. George Aiken of Woodstock, Vermont, each offer \$5.00, the method of award to be determined later.

Honorable Z. A. Gilbert of North Green, Maine, agricultural editor of the Maine Farmer, offers a prize of \$25.00 for agricultural students, the conditions to be announced later.

Honorable A. W. Gilman, Commissioner of Agriculture in Maine, offers a prize of \$25.00 for agricultural students, to be awarded by action of the faculty.

Applications for such examinations must be made out on blanks to be obtained from the Secretary of the faculty. The examinations given by the College Entrance Examination Board will be accepted in place of the above.

ADMISSION BY CERTIFICATE

Certificates for admission to the freshman class without examination are accepted only from graduates of schools approved by the New England College Entrance Certificate Board (except in the case of schools outside of New England). They will not be accepted from non-

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class of 1877, in memory of his father, Franklin Danforth, will be awarded to that member of the senior class in the agricultural course who shall attain the highest standing.

THE PHARMACY PRIZE will be awarded to that student in the Pharmacy Department who shall attain the highest standing in chemistry in the last year of his course.

THE HOLT PRIZES, the gift of Erastus Eugene Holt, A. M., M. D., LL. D., of Portland, will be given to the three students of the class of 1908, who show the greatest improvement in their rating. The rating will be determined from deductions made from the gymnasium and class records of the students at the beginning and end of their college course by the mathematical formula for the normal earning ability of the body, devised by Dr. Holt

NON-RESIDENTS.

ADMISSION TO ADVANCED STANDING.—Candidates for advanced standing are examined in the preparatory studies, and in those previously pursued by the classes they propose to enter, or in other equivalent studies; a rank of 80% must be attained before passing any course in advance. Certificates from approved schools are accepted for the preparatory work; but certificates are not accepted for any part of the college work, unless such work has been done in a college. College graduates who wish to enter a technical course are admitted to the junior class without examination.

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SPECIAL RECOMMENDATIONS.—A good preparation in algebra and geometry is most important for those who expect to enter engineering courses. The schools should give a part of the work in algebra and geometry, or a review of these subjects, during the last year.

Students preparing for the classical subjects should devote special attention to Latin composition, Roman history, and constant practice in pronouncing Latin according to the Roman method.

PRELIMINARY EXAMINATIONS.—A candidate who wishes to be examined on part of his work in advance of the year in which he proposes to enter the University may receive credit for such examination, provided he has completed not less than one-half of his preparatory work. It is urged that candidates avail themselves of this privilege so far as possible.

SPECIAL STUDENTS.—Persons not candidates for a degree, who wish to take special studies, may be permitted to do so, if upon examination they give satisfactory evidence that they are prepared to take the desired studies. If they subsequently desire to become candidates for a degree, or to take a regular course, they will be required to pass the other entrance examinations. This privilege is intended for students of unusual maturity or previous advancement in particular subjects, not for those who are incompetent to pursue a regular course.

No examinations are required for admission to the special and extension courses in agriculture.

For admission to the College of Law, see page 128.

ADMISSION BY EXAMINATIONS

Entrance examinations are held at Orono, beginning two days before the opening of the fall term, and on the Thursday, Friday, and Saturday preceding Commencement. To save expenses to candidates, examination papers will be sent to any satisfactory person who will consent to conduct examinations on the days appointed in June. Papers will not be sent at any other time. The questions are to be submitted under the usual restrictions of a written examination, and the answers returned to the University accompanied by the endorsement of the examiner. Applications for such examinations must be made out on blanks to be obtained from the Secretary of the faculty. The examinations given by the College Entrance Examination Board will be accepted in place of the above.

ADMISSION BY CERTIFICATE

Certificates for admission to the freshman class without examination are accepted only from graduates of schools approved by the New England College Entrance Certificate Board (except in the case of schools outside of New England). They will not be accepted from non-

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graduates except in extraordinary cases, and then only provided the candidate is expressly recommended for admission by the principal of the school from which he comes. Certificates must be made out on blanks furnished by the University.

Certificates from schools approved by the above-mentioned Board will be accepted at any of the institutions co-operating to maintain it. Any superintendent or principal desiring to have a school under his charge placed upon the approved list should apply before April 1st to the secretary of the board, Professor Nathaniel F. Davis, 159 Brown St., Providence, R. I.

ENTRANCE REQUIREMENTS

The requirements for admission are those adopted by the Maine Association of Colleges and Preparatory Schools:

To gain admission into any of the courses leading to the degrees of B. A. or B. S., 26 points must be offered by the candidate, according to the following schedules (to count 2 points, a subject must be pursued for one school year, with five recitation periods a week):

FOR THE B. A. COURSES

Required Subjects

College Entrance English	counts	4	points
Latin	"	8	"
Algebra	"	4	"
Plane Geometry	"	2	"
Roman History	"	1	point
	—		
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Optional Subjects (7 Points to be Chosen)

(If Greek is not taken, French or German must be; and if Greek is taken, Greek History must be taken also. Not less than 4 points of any modern language will be accepted.)

Each year of Greek	counts	2	points
" " " French	"	2	"
" " " German	"	2	"
Chemistry (including notebook)	"	2	"
Physics (including notebook)	"	2	"
Solid Geometry	"	1	point
Greek History	"	1	"
English "	"	1	"
American History and Civil Government	"	1	"

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FOR THE B. S. COURSES

Required Subjects

College Entrance English	counts	4	points
Algebra	"	4	"
Plane Geometry	"	2	"
Solid Geometry (engineering courses)	"	1	point
	—		
	II		

Optional Subjects (15 Points to be Chosen)

(Of these, two years of one modern language, one year of science, and one year of history must be taken. Not less than 4 points of any modern language will be accepted).

Each year of French	counts	2	points
" " " German	"	2	"
" " " Latin	"	2	"
" " " Greek	"	2	"
Advanced Mathematics (higher Algebra and Plane and Spherical Trigonometry)	"	2	"
Mechanical Drawing (for technical courses)	"	1	point
Manual Training (for technical courses)	"	1	"
Chemistry (including note book)	counts	2	points
Physics (including note book)	"	2	"
Physiography	"	1	point
Physiology	"	1	"
Roman History	"	1	"
Greek History	"	1	"
English History	"	1	"
American History and Civil Government	"	1	"

Candidates for the SHORT COURSE IN PHARMACY (two years) are examined on—*Elementary Subjects*, Descriptive Geography, Arithmetic, English Grammar, Physiology; *History*, United States; *Mathematics*, Algebra through simple equations of the first degree.

For the requirements for admission to the College of Law, see the article on the College of Law, page 128.

REQUIREMENTS IN DETAIL

The following statements will show in detail the requirements in each subject.

LANGUAGE

ENGLISH.—Inasmuch as the examination in English is designed quite as much to test the candidate's ability to express himself well in his

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mother tongue as to test his knowledge of the books prescribed, he is urgently advised to pursue a thorough course in English composition, in which at least a part of the subjects written upon are from his own observation and experience. He is further urged to cultivate, in all his writing, habits of correctness in spelling, grammar, sentence structure, punctuation, and paragraphing. The examiner will regard mere knowledge of the books as less important than the ability to write good English.

Grammar. The usual school course.

Reading and Practice. The candidate is expected to read intelligently all the books prescribed. He should read them as he reads other books; he is expected to have only a general knowledge of their substance, but to have freshly in mind their most important parts. To test his knowledge and his power of clear and accurate expression, he will be required to write one or two paragraphs on each of several topics set before him on the examination paper. In place of this test the candidate may present an exercise book, certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

In 1905 this part of the examination will be based upon: Shakespeare's Merchant of Venice and Julius Cæsar; the Sir Roger de Coverley Papers in The Spectator; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

In 1906, 1907, and 1908 it will be based upon: Shakespeare's Macbeth and The Merchant of Venice; The Sir Roger de Coverley Papers in The Spectator; Irving's Life of Goldsmith; Coleridge's The Ancient Mariner; Scott's Ivanhoe and The Lady of the Lake; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Lowell's The Vision of Sir Launfal; George Eliot's Silas Marner.

Study and Practice. This part of the examination presupposes a careful study of the works named below. The examination will be upon subject-matter, form, and structure; and will also test the candidate's ability to express his knowledge with clearness and accuracy.

In 1905 it will be based upon: Shakespeare's Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and on Addison.

In 1906, 1907, and 1908 it will be based upon: Shakespeare's Julius Cæsar; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Burke's Speech on Conciliation with America; Macaulay's Essay on Milton, and Life of Johnson.

FRENCH.—First Year. Pronunciation; rudiments of grammar, including inflection of the regular and irregular verbs, plural of nouns, inflection

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of adjectives, participles and pronouns, use of personal pronouns, common adverbs, prepositions, and conjunctions, word order, and elementary syntax; abundant easy exercises; 100-175 pages of graduated texts; practice in translating into French variations of sentences read; dictation, and reproduction from memory of sentences from text. Super's, or Whitney's Reader is recommended.

Second Year. 250-400 pages of easy modern prose; constant practice in translation of easy variations of the text into French; abstracts of the text; continuation of grammar; dictation.

The following texts are recommended: (1) Perrault's *Contes de Fees*, or Daudet's *Easier Short Stories*; (2) Erckmann-Chatrian's *Mme. Therèse* or *Conscrit de 1813*, or Aboit's *Roi des Montagnes*, or Merimee's *Colomba*; (3) Labiche's *Voyage de M. Perrichon*, or *Labiche et Martin's La Poudre aux Yeux*.

Third Year. (See p. 49.) 400-600 pages of ordinary difficulty; constant practice in French paraphrases, abstracts, reproductions from memory; study of grammar of moderate completeness; dictation.

The following texts are recommended: (1) Sandeau's *Mlle. de la Seiglière*, or Augier et Sandeau's *Le Gendre de M. Poirier*; (2) Corneille's *Le Cid* or *Horace*; (3) Racine's *Athalie* or *Andromaque*; (4) Molière's *L'Avare* or *Le Bourgeois Gentilhomme*; (5) Hugo's *Hernani*, or *Coppee's Poems*.

GERMAN.—*First Year.* Pronunciation: memorizing and frequent repetition of easy colloquial sentences; grammar: article, commonly used nouns, adjectives, pronouns, weak verbs and more used strong verbs, more common prepositions, simpler uses of modal auxiliaries, elementary rules of syntax and word-order; abundant easy exercises in composition; 75-100 pages of graduated texts from a reader; constant practice in translating into German easy variations of text, and reproduction from memory of sentences from text.

Second Year. Continued drill on rudiments of grammar; 150-200 pages of easy stories and plays; continued translation into German of easy variations on matter read and off-hand reproduction, orally and in writing.

The following texts are recommended: (1) Andersen's *Märchen* or *Bilderbuch*, or Leander's *Träumereien*, about forty pages; (2) Hauff's *Das Kalte Herz*, or Zschockke's *Der Zerbrochene Krug*; (3) Hillern's *Höher als die Kirche*, or Storm's *Immensee*; (4) a short story from Heyse or Baumbach or Seidl; (5) Benedix' *Der Prozess*.

Third Year.—(See below.) Grammar; less usual strong verbs, use of articles, cases, auxiliaries, tenses and moods (particularly the infinitive and subjunctive), word-order and word-formation; about 400 pages of

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moderately difficult prose and poetry; constant practice in paraphrases, abstracts and memory reproductions of passages read.

The following texts are recommended: (1) One of Riehl's *Novelettes*; (2) a part of Freytag's *Bilder aus der Deutschen Vergangenheit*; (3) a part of Fouque's *Undine*, or a part of Schiller's *Geisterseher*; (4) a short course in *Lyrics and Ballads*; (5) one classical play by Goethe, or Schiller, or Lessing.

Candidates may present themselves for an examination in French or German based upon the Third Year Courses outlined above and upon obtaining a rank of 80% will be allowed to pursue advanced work in college. But this examination in the Third Year Course will not be received in lieu of any required examination for admission, or of work required for a certificate.

LATIN.—The grammar, including prosody; Cæsar's Gallic War, books I-IV; Cicero's four orations against Catiline, and those for Archias and for the Manilian Law; Vergil's Eclogues and the *Aeneid*, books I-VI; the sight translation of Latin passages of moderate difficulty; the translation into Latin of simple English sentences, and of easy narrative passages based on the prose authors read. For the last a vocabulary of unusual words will be furnished. Equivalent readings will be accepted, for those prescribed.

GREEK.—The grammar, including prosody; Xenophon's *Anabasis*, books I-IV; Homer's *Iliad*, books I-III; the sight translation of easy passages from Xenophon; the translation into Greek of easy passages based on the required books of the *Anabasis*. For the last a vocabulary of unusual words will be furnished. Equivalent reading will be accepted.

HISTORY

GREEK HISTORY.—History of Greece, to the capture of Corinth, 146 B. C. Myer, Morey, or Botsford.

ROMAN HISTORY.—A knowledge of Roman history, down to the death of Marcus Aurelius, such as may be obtained from Allen's *Short History of the Roman People*, or from Myers's *Rome: Its Rise and Fall*, or from Morey's *Outlines of Roman History*.

ENGLISH HISTORY.—A knowledge such as may be obtained from Montgomery, Connor and Kendall, Terry, or Chayney's *History of England*.

UNITED STATES HISTORY.—A knowledge such as may be obtained from Fiske, Hart, Montgomery, or McLaughlin's *History of the United States*.

MATHEMATICS

ALGEBRA.—The elements, equations of the first degree, radicals, the theory of exponents, quadratic equations, ratio and proportion, arithmetical and geometrical progression, the binomial theorem. Candidates

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for the short course in pharmacy will be examined on no topics beyond simple equations of the first degree. A satisfactory preparation may be obtained from Wells' Academic, or Wentworth's School Algebra or any equivalent text.

PLANE GEOMETRY.—The first five books of Wells', or of Wentworth's Geometry, or an equivalent. Numerical exercises, original propositions and the neat and careful construction of figures should not be neglected. The examination will include original propositions for demonstration or construction.

SOLID GEOMETRY.—Books VI-IX of Wells', or books VI-VIII of Wentworth's Geometry, or an equivalent. The examination will be planned to test the candidate's ability to apply the theorems to the computation of surfaces and volumes, as well as his readiness in demonstration.

*** CHEMISTRY.**—The necessary ground is covered by the following textbooks: Fisher, Remsen, Roscoe (inorganic part), Shepard, Storer and Lindsay, Williams.

PHYSICAL GEOGRAPHY (PHYSIOGRAPHY).—A satisfactory preparation may be obtained from Appleton's Physical Geography.

*** PHYSICS.**—The work usually covered in one year in a good fitting school.

PHYSIOLOGY.—Cells and tissues, skeleton, muscles, blood and circulation, respiration, nutrition and digestion, lymphathic system, excretory organs, nervous system, special senses, hygiene.

ELEMENTARY SUBJECTS

DESCRIPTIVE GEOGRAPHY.—The usual school course. Required for short pharmacy course only.

ARITHMETIC.—The usual school course, including the metric system of weights and measures. Required for the short pharmacy course only.

* The work in these sciences must include certified notebooks exhibiting the results of experimental work performed by the student. These notebooks should be presented at the examination.

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REQUIREMENTS FOR GRADUATION

The college year is divided equally into a fall term and a spring term. Five recitation hours a week of successful work for one term entitle a student to one credit. The minimum regular work for a term is fifteen hours a week (exclusive of physical training and military science), leading to three credits. Six or seven credits thus represent the minimum work of a year. In making up the quota of studies, laboratory work, and other studies not requiring preparation, count as half time—that is, two hours in the laboratory are counted as equivalent to one hour. The hours devoted to such studies are marked with a dagger (†) in the detailed description of courses of instruction.

Except in the College of Law and the Short Pharmacy Course, candidates for graduation are required to complete a four-years course of study by securing from twenty-five to thirty credits, according to the course chosen.

DEPARTMENTS OF INSTRUCTION

AGRONOMY

PROFESSOR HURD; MR. GILBERT.

Ag 1. Soils.—Lectures and recitations beginning with the classification of and fundamental principles underlying the science of agriculture. The nature, origin, formation, and classification of soils. The relation of soils to plants, water, heat, gases, etc. The chemical elements in soils. Factors determining soil fertility. Soil inoculation. The conservation of soil moisture. The adaptability of crops to different kinds of soils. The objects, benefits, and methods of tillage. Reasons for necessity and benefits of crop rotation. The improvement of unproductive land. The conditions requiring, necessity for, advantages of, and methods of drainage. *Two hours a week.* Fall term.

Ag 2. Soils.—A course taken in connection with Ag 1, consisting of a study of the different soils under field conditions. Soil surveying and mapping. The collecting and sampling of soils for laboratory work. This laboratory course is designed to prepare the student better to understand the different methods of treatment of soils and the effect of these methods upon moisture, texture, aeration, fertility, and production. The work comprises the determination of such questions as specific gravity, relative gravity, water-holding capacity, evaporation, and capillary power of various types of soils and the mechanical analysis of soils. \dagger *Two hours a week.* Fall term.

Ag 3. AGRICULTURAL ENGINEERING AND FARM MECHANICS.—Farm surveying and drainage. The platting of farms and the measurement of land. Levelling for drains, estimating size of tile required, cost of drain, etc. The making of roads, with practice in the construction of roads on the college farm. A study of the simpler laws of mechanics used in operating farm implements; the principles of draft, the handling in the field, taking apart, and putting together, of the different classes of farm implements in possession of the department. The relative merits of wind, gasoline, steam, and electricity, as sources of power on the farm. Farm management and operations. The keeping of farm accounts, the planning of a season's work, the management of men and teams, and estimated cost of the different operations. The planning, designing, location, and construction of farm buildings, including water supply, sewerage, etc. \dagger *Four hours a week.* Fall term.

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Ag 4. MANURES AND FERTILIZERS.—A study of the value of stable manure in successful crop production. Its chemical composition, preservation, best methods of storing, and time and manner of applying on the land.

the land. The source of chemical composition and comparative value of chemicals used as fertilizers. Considerable attention is paid to the working out of fertilizer formulæ suited to the needs of different soils and special crops. Practice in home mixing fertilizers and field tests are given students each year on the college farm. The importance of lime in agriculture, its physical and chemical effect on different soils, best farms to buy, when to apply, and the amount to use. *Two hours a week.* Spring term.

Ag 5. FIELD CROPS.—Lectures and recitation work on the history, distribution, uses, chief characteristics, and adaptability of the principal farm crops. The best methods of producing them, including crop rotations, preparation of the land, fertilizing and seeding, a study and treatment of the injurious insects and diseases affecting them, and the harvesting, marketing, and storing of crops. *Three hours a week.* Fall term.

Ag 6. ADVANCED AGRONOMY.—Elective, advanced work for those who have completed the required work for the first three years. Lectures and recitations along lines of Experiment Station work. The application of plant breeding to the improvement of farm crops. The student will carry out original investigations along some chosen line under the direction of the instructor. *Three hours a week.* Fall term.

Ag 7. ADVANCED AGRONOMY.—A continuation of course 6. *Two hours a week.* Spring term.

Ag 8. GENERAL AGRICULTURE.—A history of agriculture from the earliest times, including that of the Jews, Egyptians, and Romans, to the present day. The beginnings of British agriculture, and the development of modern agriculture with especial reference to that of England, Germany, France, and other foreign countries. The agriculture of the United States, its influence on social conditions, its relation to the State and Nation. The importance of our leading products, and their effect on the world's commercial life. The agriculture of the different sections. Rural life and rural development. Lectures supplemented by illustrative material. Elective, and open to all students of the University. *One hour a week.* Spring term.

ANIMAL INDUSTRY

PROFESSOR GOWELL; MR. GILBERT.

An 1. ANIMAL BREEDING.—Lectures and recitations on the principles of breeding, including heredity, atavism, variation, prepotency, in-breed-

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ing, line-breeding and cross-breeding. Studying the histories, development, and economic values of the different classes and breeds of cattle and horses. *Two hours a week.* Spring term.

An 2. LABORATORY ANIMAL BREEDING.—Studying the different breeds; practice in the use of score cards in judging animals. *Two hours a week.* Spring term.

An 3. ANIMAL BREEDING.—A continuation of course 1. Sheep, swine, and poultry breeding; the handling and care of breeding and growing animals; the adaptation of the different breeds to prevailing conditions—judging by score cards; the use of incubators and brooders. The work consists of lectures and recitations, with laboratory exercises in the animal and poultry quarters. *Three hours a week.* Fall term.

An 4. ANIMAL FEEDING.—Food requirements of different kinds of animals. Compositions of foods, and the nutrients furnished by them; feeding formulas; calculating rations; valuation of foods; pasturing; soiling, methods of feeding. *Two hours a week.* Fall term.

An 5. DAIRYING.—Lectures and recitations upon the composition and formation of milk; its sanitary production; aeration; Pasteurization; sterilization; creaming, fermenting; the manufacture of butter and cheese. *Two hours a week.* Spring term.

An 6. LABORATORY DAIRYING.—Practice in handling and testing milk and cream for acidity and solids; curing cream; making butter and cheese; operating dairy machinery. *Ten hours a week for four weeks.* Spring term.

An 7. ADVANCED ANIMAL INDUSTRY.—Elective work for those that have taken An 1 to An 4 inclusive. A study of investigations in breeding, feeding, dairying, and poultry management made at the Experiment Stations of the country; and the practical application of the findings to the everyday work of the department. *The time varies.* Fall term.

An 8. ADVANCED ANIMAL INDUSTRY.—A continuation of course 7. *The time varies.* Spring term.

ART

Professor Huddleston offers certain courses in art which are described in connection with the department of Greek. See page 67.

BIBLIOGRAPHY

MR. JONES.

Bb 1. BIBLIOGRAPHY.—Origin of the alphabet; development of writing; inscriptions; manuscripts; inventions of printing; early printed books; modern bookmaking; bookbinding and the care of books; library processes and aids; public documents; periodicals; libraries, ancient and modern. A lecture course, with collateral reading and reference work. *One hour a week.* Spring term.

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Three lectures are given on The Library and Its Use, Classification and the Catalogue, and Reference Books and Their Use. Required of freshmen. Fall term.

BIOLOGY

PROFESSOR DREW; PROFESSOR RUSSELL; MR. CUMMINGS;
MISS BALENTINE.

The subjects given below are arranged numerically, but not in the order in which it is best for students to pursue them. It is desirable that all intending to take biology should begin with courses 1 and 2.

Bl 1. GENERAL BIOLOGY.—This course is devoted to the study of the general principles governing the activities of living things, both plants and animals. It is open to all students, and should form the basis for other work in either zoology or botany. It is to be taken in connection with course 2. *Two hours a week.* Fall term.

Bl 2. LABORATORY BIOLOGY.—To be taken in connection with course 1.
† *Two hours a week.* Fall term.

Bl 5. ZOOLOGY (Invertebrate animals).—Representatives of the invertebrate groups of animals are studied in the laboratory, class-room, and field, where attention is given to their habits, comparative anatomy, and to some extent to their embryology and classification. This course is to be taken in connection with course 6, and is not complete without courses 7 and 8. Courses 1 and 2 are required as a preparation. *Two hours a week.* Fall term.

Bl 6. LABORATORY ZOOLOGY.—To be taken in connection with course 5.
† *Six hours a week.* Fall term.

Bl 7. ZOOLOGY (Vertebrate Animals).—A continuation of course 5. Types of the vertebrates are studied and their structures compared. A few weeks are devoted to the embryology of the frog. This course is to be taken in connection with course 8. It must be preceded by courses 1, 2, 5, and 6. *Two hours a week.* Spring term.

Bl 8. LABORATORY ZOOLOGY.—To be taken in connection with course 7.
† *Six hours a week.* Spring term.

Bl 9. PHYSIOLOGY.—Attention is given to the physiological activities of the human body, with enough anatomy to render the physiological discussions intelligible, and enough hygiene to serve as a guide for the intelligent care of the body. It is recommended that this course be preceded by courses 1 and 2. *Two hours a week.* Spring term.

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B1 11. ENTOMOLOGY.—Insects are studied with special reference to their habits, life-histories, and structure. Attention is given to their economic importance, and the methods of controlling them. \dagger *Four hours a week.* Spring term.

B1 14. ADVANCED ZOOLOGY.—This course offers an opportunity for special zoological work along lines best suited to the future plans of the student. It may consist of field work, laboratory work, or reading, or a combination of all three. *The time varies, and the work may be continued a number of terms.* Fall and spring terms.

B1 15. VETERINARY SCIENCE.—Lectures, demonstrations, and clinics, illustrated by models, natural preparations, and living animals. *Three hours a week.* Given in the spring term of even years.

B1 16. ANIMAL ANATOMY.—A laboratory course intended to make the student familiar with the location and appearance of the organs of the bodies of our domestic animals. \dagger *Ten hours a week for nine weeks.* Given in the spring term of odd years.

B1 17. BACTERIOLOGY.—An elementary laboratory course, including the preparation of culture media and a critical study of the morphological and biological characteristics of a few typical bacteria. Students in agriculture give special attention to the bacteriology of the dairy. \dagger *Ten hours a week for nine weeks.* Spring term.

B1 18. ANIMAL HISTOLOGY.—A laboratory course in normal animal histology. Starting with perfectly fresh material, the work consists in the preparation, hardening, embedding, cutting, staining, and mounting of the various normal tissues and organs of animals. \dagger *Ten hours a week for nine weeks.* First part of spring term.

B1 19. LABORATORY BACTERIOLOGY.—An advanced course. \dagger *Ten hours a week for nine weeks.* Spring term.

B1 20. ORGANIC EVOLUTION.—Some of the more important facts on which the theory is based are presented for consideration, and subjects for individual reading and essays are assigned. *One hour a week.* Spring term.

B1 21. GENERAL BOTANY (Flowering Plants).—The course includes a brief consideration of the fundamental principles of the structure, physiological functions, habits, and systematic relations of flowering plants. This course must be taken in connection with course 22, and should follow courses 1 and 2. *One hour a week.* Spring term.

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Bl 22. LABORATORY BOTANY.—To be taken in connection with course 21. †Four hours a week. Spring term.

Bl 23. GENERAL BOTANY (Flowerless Plants).—Type forms of algae, fungi, lichens, liverworts, mosses, and ferns are studied in the laboratory and in the field. Attention is given to their structures, life histories, and habitats, as well as their relations to the higher forms of plants. This course must be preceded by courses 1 and 2, and should be preceded by courses 21 and 22. †Four hours a week. Fall term.

Bl 25. PLANT HISTOLOGY.—The minute structure of plants, including the anatomy of the cell, is studied, and attention is given to growth, variation, and adaptation of cellular structures, and the formation and distribution of tissue systems. Killing, staining, and mounting plant tissues forms part of the work. This course is to be taken in connection with course 26 and must be preceded by courses 21 and 22. One hour a week. Fall term.

Bl 26. LABORATORY PLANT HISTOLOGY.—To be taken in connection with course 25. †Four hours a week. Fall term.

Bl 27. PLANT PHYSIOLOGY.—Attention is given to the physiological activities of plants: the processes of nutrition and reproduction; the phenomena of respiration, transpiration, and growth; response to various stimuli, such as light, heat, moisture, and gravity. This course must be preceded by courses 21 and 22 and should be preceded by courses 23, 25, and 26. It is advisable to take this course in connection with course 28. One hour a week. Spring term.

Bl 28. LABORATORY PLANT PHYSIOLOGY.—To be taken in connection with course 27. †Two hours a week. Spring term.

Bl 29. AGRICULTURAL BOTANY.—This course deals with the plants of the farm and consists of three parts. 1. Seeds.—Structure, function and dispersal. Buying, selling, testing, and identification. 2. Weeds.—Origin and distribution; their benefits, disadvantages, and methods of eradication; systematic study of Maine weeds. 3. Grasses.—Origin and distribution of the important grasses; their duration, reproduction, and pollination; identification of species. This course must be taken in connection with course 30. Two hours a week. Fall term.

Bl 30. LABORATORY AGRICULTURAL BOTANY.—To be taken in connection with course 29. †Two hours a week. Fall term.

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B1 31. PLANT PATHOLOGY.—Attention is given to the diseases of plants resulting from the attacks of fungi and those induced by unfavorable environment. The causes, symptoms, and treatment of the common diseases of familiar plants are considered. This course must be taken in connection with course 32. *One hour a week.* Given in the spring term of odd years.

B1 32. LABORATORY PLANT PATHOLOGY.—To be taken in connection with course 31. \dagger *Two hours a week.* Spring term.

B1 37. ADVANCED BOTANY.—This course offers an opportunity for special work in botany along lines best suited to the future plans of the student. It may consist of field work, laboratory work, or reading, or a combination of all three. *The time varies and the work may be continued a number of terms.* Fall and spring terms.

CHEMISTRY

PROFESSOR AUBERT; PROFESSOR MERRILL; MR. DAVIS; DR. BEDFORD;
MR. SEABURY.

Ch 1. GENERAL CHEMISTRY.—Recitations and lectures on the general principles of chemistry, illustrated by charts, experiments, etc. To obtain credit for this course, it must be accompanied by course 3, and followed by courses 2 and 4, unless a special excuse is obtained. The text-book is Jones's Elements of Inorganic Chemistry. *Two hours a week.* Fall term.

Ch 2. GENERAL CHEMISTRY.—A continuation of course 1. *Three hours a week.* Spring term.

Ch. 3. LABORATORY CHEMISTRY.—Practical work to accompany course 1. The text-book is Smith's Laboratory Outline of General Chemistry. \dagger *Two hours a week.* Fall term.

Ch 4. LABORATORY CHEMISTRY.—A continuation of course 3, to accompany course 2, with elementary qualitative analysis for those who advance far enough. \dagger *Two hours a week.* Spring term.

Ch 5. ADVANCED INORGANIC CHEMISTRY.—Lectures and recitations, illustrated by specimens. The text-book is Jones's Principles of Inorganic Chemistry. *Two hours a week.* Fall term. No credit, unless course 6 is taken, except by special arrangement. Open to students that have taken courses 1, 2, 3, and 4.

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Ch 6. ADVANCED INORGANIC CHEMISTRY.—A continuation of course 5.
Three hours a week. Spring term.

Ch 7. ELEMENTARY ORGANIC CHEMISTRY.—The marsh gas series. Lectures and recitations, illustrated by specimens. The text-book is Remsen's Organic Chemistry. *Three hours a week.* Fall term. This course must be followed by course 8, and preceded by courses 1, 2, 3, 4, 5 and 6, except for those especially admitted.

Ch 8. ELEMENTARY ORGANIC CHEMISTRY.—The unsaturated compounds and the benzene series. A continuation of course 7. *Three hours a week.* Spring term.

Ch 12. CHEMICAL PREPARATIONS.—The preparation and purification of typical organic and inorganic substances. Open to students that have taken courses 1, 2, 3, 4, 5, 6, 7, and 8. Text-book, Aubert's Organic and Inorganic Preparations. *Five hours a week.* Fall term.

Ch 13. DESCRIPTIVE MINERALOGY.—The text-book is Moses and Parson's Elements of Mineralogy. *Three hours a week.* Spring term.

Ch 14. QUALITATIVE ANALYSIS.—A laboratory study of the chief elements and their derivatives with a view to a clear understanding of their properties. Supplemented by class room work. The text used is Prescott and Johnson's Qualitative Analysis. *Not less than † eight hours per week, unless by special arrangement.* Fall term. Open to students that have taken courses 1, 2, 3, and 4, except for students in the Short Pharmacy Course. It is generally advised that course 5 be taken with this course, and it must be followed by course 15.

Ch 15. QUALITATIVE ANALYSIS.—A continuation of course 14, with the application of analytical methods to the determination of unknown substances of increasing complexity. Elementary analysis by means of the spectroscope is given. Course 6 is usually an accompanying study, except for students in the Short Pharmacy Course. *Time, the same as course 14.* Spring term.

Ch 16. QUANTITATIVE ANALYSIS.—Gravimetric determinations. The text is Olsen's Quantitative Chemical Analysis. *Not less than † eight hours per week, unless by special arrangement.* For satisfactory preparation, the student should have taken courses 1, 2, 3, 4, 14, and 15; and he should add courses 18 and 19.

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Ch 18. QUANTITATIVE ANALYSIS.—Analysis of complex alloys, minerals, etc. The text used is Clowes and Coleman's Quantitative Analysis. *Not less than † eight hours per week, unless by special arrangement.* Fall term. Open to students that have taken course 16 and its requirements.

Ch 19. VOLUMETRIC ANALYSIS AND ASSAYING.—Acidimetry, alkalinometry, oxydometry; gold and silver assaying. Text, *time*, and general requirements the same as for course 18.

Ch 20. AGRICULTURAL ANALYSIS.—The analysis of fodders, fertilizers, milk, and other products. The methods are those recommended by the Association of Official Agricultural Chemists. Except in special cases, the *time* and requirements are the same as for course 18.

Ch 21. TOXICOLOGY AND URINALYSIS.—The determination of the more common poisons; the analysis of urine. Text, Aubert's Urinalysis and Toxicology. *Time*, and general requirements, the same as for course 18.

Ch 22. THESIS WORK.—The Thesis must embody the result of original work in analysis or research. *† Fifteen hours a week for eleven weeks.* Spring term. Open to students that have taken courses 1, 2, 3, 4, 5, 6, 7, 8, 12, 14, 15, 16, 18, 19, 20, 21, 23, 24, and 28.

Ch 23. ORGANIC CHEMISTRY.—An advanced course. Text-book, Joannis's Cours de Chimie, Vol. III. *Three hours a week.* Fall term.

Ch 24a. INDUSTRIAL CHEMISTRY.—General processes of technical chemistry, and selected topics, including the principal manufactured products of special interest. Lectures and recitations. Text-books, Thorp's Outlines of Industrial Chemistry and Fischer's Lehrbuch der Chemischen Technologie. *Two hours a week.* Fall term. Open to students that have completed courses 5, 6, 7, and 8.

Ch 24b. INDUSTRIAL CHEMISTRY.—A continuation of course 24a. *Two hours a week.* Spring term.

Ch 25a. TECHNICAL ANALYSIS.—An advanced course in analysis of ores and industrial products. Open to students that have completed courses 16, 18, 19, and their requirements. *† Five hours a week.* Fall term.

Ch 25b. TECHNICAL ANALYSIS.—Organic technical products, and advanced mineral analysis. *† Five hours a week.* Spring term.

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Ch 26. PHYSICAL CHEMICAL METHODS.—The determination of molecular weights by the vapor density, boiling point, and freezing point methods. The use of the refractometer and the polariscope. *† Five hours a week.* Spring term.

Ch 28. DYEING.—The practical application of dyes to cotton, wool and silk. *† Fifteen hours a week for two weeks.* Spring term.

Ch 29. AGRICULTURAL CHEMISTRY.—A course on the chemistry of soils and fertilizers. It includes the relation of soils to heat and moisture; the mechanical condition of soils best suited to plant growth, and the objects to be gained by cultivation; the origin, composition, preparation, and use of commercial fertilizers; the supply, composition, care, and use of farm manures, and the general considerations which pertain to the maintenance of soil fertility. *Five hours a week.* Given in the spring term of even years. Open to students that have completed courses I, 2, 3, and 4.

Ch 30. BIOLOGICAL CHEMISTRY.—Lectures and recitations on the composition of the air, soils, natural waters, and plants; the source and assimilation of plant food; the composition of the animal body and of food materials; the chemical changes involved in the digestion and assimilation of food; the chemistry of milk and dairy products; and the chemical processes and methods of investigation by which these subjects are studied. *Five hours a week.* Fall term.

Ch 31. CHEMICAL EQUATIONS.—Principles governing chemical reaction; their application to equations; advanced equation writing; oxidation and reduction. The text-book is Prescott and Johnson's Qualitative Chemical Analysis. *Two hours a week.* Spring term.

CIVICS

PROFESSOR ROGERS.

Cv 1. CONSTITUTIONAL LAW AND HISTORY.—An outline of Anglo-Saxon institutions, the development of the English Constitution, the growth and political conditions of the American colonies, the Articles of Confederation, the adoption of the Constitution, and the comparative study of the Federal and the State Constitutions from the historical and legal standpoints. The text-book is Rogers's Our System of Government. *Five hours a week.* Spring term.

Cv 2. POLITICAL ECONOMY.—Instruction is given by lectures. Topical readings and investigations are required. *Five hours a week.* Fall term.

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Cv 3. ADVANCED POLITICAL ECONOMY.—A continuation of course 2.
One hour a week. Spring term.

Cv 4. INTERNATIONAL LAW.—The text-book is Lawrence's International Law. *Five hours a week.* Fall term.

Cv 5. PUBLIC FINANCE.—A study of taxation and public expenditures. *Four hours a week.* Spring term.

Cv 6. COLONIAL PROBLEMS.—*Three hours a week.* Given in the spring term of even years.

Cv 7. SOCIOLOGY.—The text-book is Giddings's Sociology. *Three hours a week.* Given in the spring term of odd years.

Cv 8. ROMAN LAW.—*Two hours a week.* Spring term.

Cv 9. ANTHROPOLOGY.—A study of primitive man and of the origin and growth of civilization. The text-book is Tylor's Anthropology. *Three hours a week.* Fall term.

Cv 10. BUSINESS LAW.—*One hour a week.* Spring term.

CIVIL ENGINEERING

PROFESSOR BOARDMAN; PROFESSOR WESTON; MR. HAMLIN; MR. GROVER.

Ce 1. PLANE SURVEYING.—Recitations on the general principles of plane surveying. Instruments, their adjustments and uses, land survey computations, direct leveling, and the variation of the magnetic needle. The text-book is Raymond's Surveying and Pence and Ketchum's Field Manual. *Two hours a week.* Spring term.

Ce 2. FIELD WORK IN SURVEYING.—The use of the chain, compass, transit, and level. The adjustment of instruments; original surveys made. Plats are prepared of surveys made in the field. The text-book is Field Manual by Pence and Ketchum. [†]*Six hours a week.* Spring term.

Ce 3. RAILROAD CURVES AND EARTHWORK.—Lectures and recitations on the theory of railroad curves, switches, turnouts, slope stakes, and the calculation of earthwork. The text-book is Allen's Railroad Curves and Earthwork, together with Allen's Tables. *Three hours a week.* Fall term.

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Ce 4. RAILROAD WORK.—The survey of a railroad about three miles long. The preliminary and location surveys are made, including the running in of the curves, establishing the grade, setting the slope stakes, and the calculation of the earthwork. *† Six hours a week.* Fall term.

Ce 5. HIGHWAY ENGINEERING.—The location, construction, and improvement of country roads under different conditions of soil, climate, and traffic. *One hour a week.* Fall term.

Ce 6. DRAWING.—Problems in projections. Dimension and detail drawing, and tracing. Special attention is given to lettering. Fall term. *† Four hours a week.*

Ce 7. DRAWING.—Isometric and cabinet projections, perspective, tracing, and lettering. Stereotomy, giving the application of the methods of descriptive geometry to the preparation of drawings for arches, retaining walls, bridge abutments, piers, etc. *† Ten hours a week for five weeks.* Fall term. *† Ten hours a week for five weeks.* Spring term.

Ce 8. SANITARY ENGINEERING.—Sewerage systems; drainage and sewerage of towns; drainage of sewerage systems; sewage disposal; water supply and purification; sewerage treatment. The text-book is Folwell's Sewerage. *Two hours a week.* Fall term.

Ce 9. SURVEYING.—The plane table, topographical surveying, precise leveling, the elements of geodesy, the measurement of a base line, triangulation. This course is given during the first two weeks following commencement, *and counts as 100 hours.* Required of juniors.

Ce 10. HYDRAULICS. Fundamental data; hydrostatics; theoretical hydraulics; instruments and observations; theoretical and actual flow through orifices, weirs, tubes, pipes, and conduits; dynamic pressure of water. The text-book is Merriman's Hydraulics. *Three hours a week.* Spring term.

Ce 11. HYDRAULIC FIELD WORK.—The measurement of the flow of rivers is illustrated by the use of the current meter, and various forms of floats. Trips are made to the United States Geological Survey gaging station located on the Penobscot river between Howland and West Enfield, where discharge measurements are made, the data thus obtained being used together with that obtained from the Survey to plot the rating curve, etc. The measurements are reported to the Survey. The charge for this course is \$5.00. *† Three hours a week.* Fall term.

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Ce 12. STRUCTURES.—A continuation of course 21. The theory of stresses in framed structures; graphical statics; the principles of designing; the plate girder, bridge trusses, roof trusses. The object of this course is to train the student in the application of the principles of applied mechanics. *Three hours a week.* Fall term.

Ce 13. STRUCTURES.—A continuation of course 12. Higher structures, including draw bridges, cantilever bridges, suspension bridges, arches, steel buildings. *Five hours a week.* Spring term.

Ce 14. DESIGNING.—Designs for some of the common types of steel structures, and preparation of drawings for the shop. [†]*Ten hours a week.* Fall term.

Ce 15. DESIGNING.—A continuation of course 14 and the preparation of a thesis. [†]*Fifteen hours a week for ten weeks.* Spring term.

Ce 16. HYDRAULIC ENGINEERING.—Rainfall, evaporation, and stream flow. Water meters, water wheels, and motors. The development and utilization of water power. The collection, purification, and distribution of water for city supplies. *Two hours a week.* Fall term.

Ce 17. HYDRAULIC ENGINEERING.—A continuation of course 16. *Two hours a week.* Spring term.

Ce 18. SANITARY SCIENCE.—Lectures on the causes and prevention of disease, sanitation, and the public health, and the relations of the engineer to this work. *One hour a week.* Fall term.

Ce 19. RAILROAD ENGINEERING.—A course discussing the economics of railroad location, also the subjects of brakes, signals, rolling-stock, yards, stations, etc. *Two hours a week.* Spring term.

Ce 20. MASONRY CONSTRUCTION.—Building stone; cements and their tests; mortar; concrete; piles; foundations; pneumatic caissons; open caissons; bridge piers and abutments. Lectures and recitations. The text-book is Baker's Masonry Construction. *Two hours a week.* Fall term.

Ce 21. STRUCTURES.—The theory of the simple beam; loads; reactions; vertical shear; shear; bending moment; influence lines. The object of this course is to give the student a drill in finding vertical shear and bending moment under different systems of loadings, and to familiarize him with the use of steel hand books, the moment diagram, different tables, and the slide rule. *Two hours a week.* Spring term.

The University of Maine

ELECTRICAL ENGINEERING

PROFESSOR GANONG; MR. CARPENTER.

Ee 1. ELECTRICITY AND MAGNETISM.—This course continues the subject of electricity and magnetism begun in physics. The work is taken up by text-book, lectures, and problems. The text-book is *Cyclopedia of Applied Electricity*. *Two hours a week*. Fall term. Required of juniors in Electrical Engineering.

Ee 2. ELECTRICITY AND MAGNETISM AND DYNAMO DESIGN.—A continuation of course 1, with the application of principles to the problems of dynamo design. The work is taken up by text-book, lectures, and problems. *Three hours a week*. Spring term. Required of juniors in Electrical Engineering.

Ee 3. ELECTRICAL MACHINERY.—A course on the design and construction of direct current generators and motors. The work is taken by lectures and problems. The text-book is Esterline's *The Design of Electrical Machinery*. *Three hours a week*. Fall term. Required of seniors in Electrical Engineering.

Ee 4. ALTERNATING CURRENT MACHINERY.—In this course are considered the principles involved in the design, construction, and operation of alternating current generators, motors, transformers, and rotary converters. The text-book is Jackson's *Alternating Currents and Alternating Current Machinery*. *Five hours a week for the first nine weeks*. Spring term. Required of seniors in Electrical Engineering.

Ee 5. DESIGN OF DIRECT CURRENT MACHINES.—This course is taken up in the drawing room. Each student is required to make the calculations and drawings of a direct current dynamo. [†]*Four hours a week*. Fall term. Required of seniors in Electrical Engineering.

Ee 6. DESIGN OF ALTERNATING CURRENT MACHINES.—A drawing room course similar to course 5. The calculations and drawings are made for an alternating current generator. [†]*Five hours a week for nine weeks*. First half of spring term. Required of seniors in Electrical Engineering.

Ee 7. LABORATORY WORK, DIRECT CURRENTS.—Tests of electrical instruments. Experimental work with generators and motors. Power and photometric tests of electric lamps. Care and management of the college lighting plant. The charge for this course is \$3. [†]*Four hours a week*. Fall term. Required of seniors in Electrical Engineering.

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Ee 8. LABORATORY WORK, ALTERNATING CURRENTS.—A course similar to course 7. Tests of alternating current instruments. Experimental work with generators, motors, transformers and rotary converters. Work with generators, motors, transformers and rotary converters. The charge for this course is \$2.50. Required of seniors in Electrical Engineering.

Ee 9. DYNAMOS.—The general principles and theory of design. Different types of machines. Practical considerations in the construction and operation of direct current generators and motors. Connecting and starting of generators and motors. Illustrations by laboratory experiments. The text-book is *Cyclopedia of Applied Electricity*. *Three hours a week*. Fall term. Required of juniors in Mechanical Engineering.

Ee 10. DYNAMO LABORATORY WORK.—Practice in the connecting and running of direct current generators and motors. Tests for regulation, heating, efficiency, and insulation. Offered for seniors in Mechanical Engineering. The charge for this course is \$2.50.

Ee 12. LABORATORY WORK, DIRECT CURRENTS.—Introductory to course 7. *† Two hours a week*. Spring term. Junior year. The charge for this course is \$2.

Ee 13. ALTERNATING CURRENTS.—Theory of alternating currents. The text-book is Esty's *Alternating Current Machinery*. *Three hours a week*. Fall term. Required of seniors in Electrical Engineering.

Ee 14. ELECTRICAL ENGINEERING.—Polyphase alternating currents and wiring. Theory and construction of telegraph and telephone instruments. Methods of operating and testing. The course is taken by lectures. *Three hours a week for nine weeks*. Last half of spring term. Required of seniors in Electrical Engineering.

Ee 16. THESIS WORK.—The designing of electrical apparatus, laboratory investigation, or commercial testing, with results presented in proper form. Methods of operating and testing. The course is given by form. Required of seniors in Electrical Engineering.

The University of Maine

ENGLISH

PROFESSOR ESTABROOKE; PROFESSOR THOMPSON; MR. PRINCE;
MR. SPRAGUE.

Two credits in English are required for graduation. Courses 3 and 4, which are prescribed for freshmen, give 1 1-5 credits. The remaining 4-5 credit is regularly obtained by taking courses 1 and 2; but students especially interested in other courses in English may, upon consultation with the instructors, make certain substitutions (see under courses 6, 9, 17, and 18). Course 1 is regularly taken during the freshman year and course 2 during the sophomore year; however, upon sufficient grounds, either course may be postponed for one year.

Eh 1a and 2a. PUBLIC SPEAKING.—The purpose of this course is to give the student a practical knowledge of the fundamental principles of effective public speaking. The first term's work consists in voice training by means of practice work in classes, reading aloud for interpretation, and the acquirement of ease in pose and gesture. During the second term the training thus acquired will be applied to the delivery of model public orations, and especially to speeches of the student's own composition. Special attention will be given to the correction of individual faults. Provided their other work is satisfactory, the eight students obtaining the highest grades in this course are chosen to compete in the sophomore prize declamations. During the first term the sections will meet *once a week*; during the second, *once in two weeks*. The assignment of sections is made by the instructor in the second week of the term.

Eh 2a and 2b. ENGLISH COMPOSITION.—This course—to be taken throughout the sophomore year—supplements the work of the freshman year by giving further practice in narrative, expository, and argumentative writing. *Monthly themes are required*, each containing from 1,000 to 1,200 words. There will be a conference on each theme.

Eh 3. ENGLISH COMPOSITION AND RHETORIC.—This course gives both theoretical and practical instruction. The theory is taught by class-room work based on Espenshade's Composition and Rhetoric. The practice is obtained by exercises written in the class-room, and by weekly themes. The themes are criticized in detail by the instructor, and those falling below the standard must be rewritten. In addition to the study of the text-book and the writing and rewriting of themes, certain outside reading from standard authors is required. This course is prescribed for freshmen. *Three hours a week*. Fall term.

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Eh 4. ENGLISH COMPOSITION AND RHETORIC.—Extended study of the forms of discourse: narration, description, exposition, and argumentation; construction of outlines, and practice in the different forms by exercises in the class-room and by weekly themes. The text-books are Cairn's Forms of Discourse, and Lewis's Specimens of the Forms of Discourse. This course is prescribed for freshmen. *Three hours a week.* Spring term.

Eh 5. OLD ENGLISH.—Elements of Old English grammar; reading of easy prose and poetry. Constant reference is made to the relation of old English to modern English and modern German. The text-book is Smith's Old English Grammar. *Three hours a week.* Given in the spring term of even years.

Eh 6. ENGLISH COMPOSITION AND LITERATURE.—One two-page theme a week, and occasional longer themes, in connection with the study of selections from English prose writings. Among the writings studied will be selections from Addison, Swift, Johnson, Goldsmith, and Burke. *Two hours a week.* Fall term.

Eh 7. ENGLISH COMPOSITION AND LITERATURE.—A continuation of course 6. Among the writings studied will be selections from Macaulay, Carlyle, Ruskin, Newman, Matthew Arnold, and Stevenson. *Two hours a week.* Spring term.

Courses 6 and 7 are open to those that have taken courses 3 and 4; and students especially interested in courses 6 and 7 may, upon consultation with the instructor, substitute them for courses 1 and 2.

Eh 8. ENGLISH LITERATURE.—The text-book, Pancoast's Introduction to English Literature, is supplemented by frequent lectures, and by study in the library. A few masterpieces are studied in detail. Attention is given to historical and social conditions, and the students are required to prepare essays upon the characters and times studied. *Two hours a week.* Fall term.

Eh 9. ENGLISH LITERATURE.—A continuation of course 8. The authors studied are chiefly Elizabethan dramatists. *Three hours a week.* Spring term.

Eh 10. ENGLISH LITERATURE.—A continuation of course 9. Study of Elizabethan writers completed. Study of writers of the Restoration. *Two hours a week.* Fall term.

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Eh 11. AMERICAN LITERATURE.—Study of the most important American authors of the nineteenth century. The text-book is Bronson's American Literature. *Three hours a week.* Spring term.

Eh 12. ENGLISH LITERATURE.—Study of the structure and qualities of the English novel. The text-book is Perry's Study of Prose Fiction. *Two hours a week.* Fall term.

Eh 13. ENGLISH LITERATURE.—A continuation of course 12. In this course selections from English novelists are read critically, in order to determine the characteristic qualities of each. At least one entire work of a selected author is carefully studied. *Three hours a week.* Spring term.

Eh 14. AMERICAN POETS.—This course is designed to make the student acquainted with the more important American poets, especially with Poe, Bryant, Longfellow, Emerson, and Lowell. The text-book is Bronson's American Literature. *Three hours a week.* Given in the spring term.

Eh 15. VICTORIAN POETS.—Tennyson, Browning, Rossetti, and Arnold. A study of selected poems, together with readings in the works of these poets and of contemporary poets. *Three hours a week.* Fall term.

Eh 17. FORENSIC WRITING.—A course in the principles of written argumentation with a view to spoken debate. Lectures and written work. Open only to those that have taken courses 3 and 4, or an equivalent. *Two hours a week.* Fall term.

Eh 18. ORAL DEBATE.—A course in application of the principles of argumentation to spoken debate. Lectures and class room work. Open only to those that have taken course 17, or an equivalent. This course is not given unless elected by at least eight students. *Two hours a week.* Spring term.

Courses 17 and 18 may be substituted for courses 1 and 2.

Eh 19. FORMS OF ENGLISH POETRY.—The study of the foot, the line, the stanza, the ballad, the sonnet, the ode, the epic, the metrical romance, etc. *Two hours a week.* Fall term.

Eh 20. ENGLISH ROMANTIC POETS.—A general view of the English Romantic Movement with some attention to the characteristics of the poetry that preceded this movement; a study of selected poems from the

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writings of Thomson, Collins, Gray, Cowper, and Burns. *Two hours a week.* Fall term.

Eh 21. ENGLISH ROMANTIC POETS.—A continuation of course 20. Study of selected poems from the writings of Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats. *Two hours a week.* Spring term.

FORESTRY

PROFESSOR TOWER; MR. CUMMINGS.

Fy 1. GENERAL FORESTRY.—The importance and scope of the subject; direct and indirect value of the forest; relation of the forest to the State; relation of forestry to the other sciences, and of the individual branches of forestry to each other; forestry in the United States. Optional for students that take forestry as a major. *Two hours a week.* Spring term.

Fy 2. FOREST BOTANY.—A study of the morphology and functions of the organs of trees; the development of the tissues of woody plants; a systematic account of the trees of the United States, with special reference to those of commercial value. Open to those that have taken B1 21 and 22; to be taken in connection with course 4. *Two hours a week.* Fall term.

Fy 3. FOREST BOTANY.—A continuation of course 2. To be taken in connection with course 5. *Two hours a week.* Spring term.

Fy 4. FOREST BOTANY, FIELD AND LABORATORY WORK.—Excursions to identify and classify the trees and principal shrubs about Orono. Microscopic work in the study of structure and development of the organs of trees. \dagger *Four hours a week.* Fall term.

Fy 5. FOREST BOTANY, FIELD AND LABORATORY WORK.—A continuation of course 4. \dagger *Four hours a week.* Spring term.

Fy 6. SILVICULTURE.—A study of the facts which concern forest growth in the relation of the tree to external influences; characteristics of the forest, and of the forest regions of the United States; systems of reproducing forests naturally; thinnings and improvement cuttings. To be taken in connection with course 8. Open to those that have taken courses 2, 3, 4 and 5. *Two hours a week.* Fall term.

Fy 7. SILVICULTURE.—A continuation of course 6. To be taken in connection with course 9. *Two hours a week.* Spring term.

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Fy 8. SILVICULTURE, FIELD WORK.—Special studies and practical work in the forest. *† Eight hours a week the first half of the fall term.*

Fy 9. SILVICULTURE, FIELD WORK.—A continuation of course 8. *† Eight hours a week, the last half of the spring term.*

Fy 10. FOREST MEASUREMENTS.—The determination of the contents of felled and standing trees and of the whole forest on a tract; methods of measurement in use in the United States; calculation of rate of growth; construction of volume and yield tables. To be taken in connection with course 11. *Two hours a week.* Fall term. Open to those that have taken Ms 1, 2, and 4.

Fy 11. FOREST MEASUREMENTS, FIELD WORK.—Practice in taking measurements, and office work in computing the results. *† Four hours a week.* Fall term.

Fy 12. LUMBERING.—The industry considered from an economic standpoint; an account of the methods of lumbering in the different parts of the United States. In connection with this course the student is expected to spend two weeks in a lumber camp and prepare a written report on the operations of lumbering in that locality. *One hour a week.* Fall term. One-half credit is allowed for the time spent in the lumber camp and in preparing the report. Open to students taking forestry as a major subject.

Fy 13. FOREST MANAGEMENT.—Financial and economic considerations; the normal forest; principles and preparation of working plans. *Two hours a week, the first half of the spring term.* Open to those that have taken courses 6, 7, 8, 9, 10, and 11.

Fy 13. THESIS WORK.—The preparation of a thesis in forest management. *† Ten hours a week.* Spring term.

GERMAN

* PROFESSOR LEWIS; PROFESSOR LENTZ; MR. SHUTE.

Gm 1. GERMAN.—Elementary course. Lange, German Method; Joynes-Meissner Grammar; Bierwirth, Elements of German; Gerstäcker, Germelshausen; Campe, Robinson der Jüngere; Kraner, Wigo, and Jacobsen, Der Tschokoi; Heyse, L'Arrabbiata. *Five hours a week.* Fall term.

* Absent on leave.

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Gm 2. GERMAN.—A continuation of course 1. *Five hours a week.* Spring term.

Gm 3a. GERMAN.—Lessing, Minna von Barnhelm; Goethe, Hermann und Dorothea; Gore, Science Reader; Heyse, Anfang und Ende. Review of grammatical principles; German composition and conversation. *Three hours a week.* Fall term.

Gm 3b. GERMAN.—A continuation of course 3a. *Two hours a week.* Spring term.

Gm 4a. GERMAN.—Schiller, Wallenstein; Goethe, Egmont, Tasso, Iphigenie; Lessing, Nathan der Weise; lectures; outside reading; themes in German and English upon works read; conversation. *Three hours a week.* Fall term.

Gm 4b. GERMAN.—Goethe, Faust, Part I; lectures, themes, reference readings, conversation. *Three hours a week.* Spring term.

Gm 5a. GERMAN.—History of German literature. Kluge, Deutsche National Litteratur. Lectures, recitations, themes in English and German; collateral reading. *Three hours a week.* Fall term.

Gm 5b. GERMAN.—A continuation of course 5a. The extended study of a particular epoch. *Three hours a week.* Spring term.

Gm 6a. GERMAN.—Composition and conversation. Open to students that have completed courses 1 and 2, or their equivalents. *Two hours a week.* Fall term.

Gm 6b. GERMAN.—Composition and conversation. A continuation of course 6a. *Two hours a week.* Spring term.

Gm 7a. GERMAN.—Advanced composition, rapid sight reading and conversation. *Two hours a week.* Fall term.

Gm 7b. GERMAN.—A continuation of course 7a. *Two hours a week.* Spring term.

GREEK

PROFESSOR HUDDILSTON.

Gk 1. XENOPHON.—Hellenica, Books I-IV. Study of syntax, and daily exercises in writing Greek. *Four hours a week.* Fall term.

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Gk 2. HOMER.—*Odyssey*, Books VI-XII. The reading of the remaining books, in English translation, is required. Assigned readings on the history of Greek poetry, “the Homeric question,” and Homeric antiquities. *Four hours a week.* Spring term.

Gk 3. ATTIC ORATORS.—Some of the shorter orations of Demosthenes; selections from the minor Attic orators; parallel reading on the history of Greek prose literature, and the public economy and social life of Athens. *Two hours a week.* Fall term.

Gk 4. GREEK TRAGEDY.—Euripides’s *Medea* and Sophocles’s *Antigone*. The reading of several other plays in English translation is required; also, parallel reading on the history of the Greek tragic drama. *Three hours a week.* Spring term.

Gk 5. THUCYDIDES.—Book I. Assigned reading in Herodotus, and a comparative study of the three great historians of Greece. *Three hours a week.* Fall term. Open to students that have taken courses 1 and 3.

Gk 6. ARISTOPHANES.—The *Clouds* and the *Knights*; lectures and collateral reading on the development of Greek comedy. *Two hours a week.* Spring term. Open to students that have taken courses 2 and 4.

Gk 7. PLATO.—Selected dialogues. Lectures on the history of Greek philosophy with special reference to Plato and Aristotle. *Two hours a week.* Fall term. Open to students that have taken courses 3 and 5.

Gk 8. PINDAR.—The Olympian and Pythian Odes; supplementary reading on the history of Greek lyric poetry. *Two hours a week.* Spring term.

Gk 9. GREEK SCULPTURE.—Lectures, illustrated by photographs and lantern slides. This course does not presuppose a knowledge of Greek, and is intended to serve as a general introduction to the history of the fine arts. The interdependence of the arts and their relation to the life of the Greeks, as well as their relation to the world’s subsequent art, are emphasized. *Two hours a week.* Given in the fall term of odd years.

Gk 10. GREEK SCULPTURE.—A continuation of course 9, including a study of Greek architecture. *Two hours a week.* Given in the spring term of even years.

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Gk 11. NEW TESTAMENT GREEK.—This course is intended for those who have no acquaintance with ancient languages, and, with course 12, is expected to give considerable facility in reading the narrative portions of the Greek Testament. It is open to all students. *Three hours a week.* Given in the fall term of even years.

Gk 12. NEW TESTAMENT GREEK.—A continuation of course 11. Reading of the Gospels of John and Matthew; syntax. *Three hours a week.* Given in the spring term of odd years.

Gk 13. GREEK PRIVATE LIFE.—Lectures, illustrated with lantern slides and photographs. Assigned reading. *Two hours a week.* Given in the fall term of even years.

Gk 14. GREEK RELIGION.—A study of the chief divinities in ancient Greek religion. Lectures and assigned reading. Investigation of special topics by members of the class. *Two hours a week.* Given in the spring term of odd years.

Gk 15. GREEK PROSE COMPOSITION.—A course in writing Greek, intended to continue the work begun in Gk 1. *One hour a week.* Spring term.

Gk 18. GREEK PROSE COMPOSITION.—An advanced course consisting of the translation into Greek of narrative and rhetorical passages. *One hour a week.* Fall term.

Gk 19. GREEK PROSE COMPOSITION.—A continuation of course 18. *One hour a week.* Spring term.

For the accommodation of those students who have not presented Greek for entrance to college the two following courses in elementary Greek are offered.

Gk 20. ELEMENTARY GREEK.—The declensions, conjugations; Xenophon's Anabasis, Books I-II, and daily writing of Greek based on the text. *Five hours a week.* Fall term.

Gk 21. XENOPHON AND HOMER.—Anabasis, Books III-IV; sight reading in Attic prose; selections from Homer's Iliad. *Five hours a week.* Spring term.

At 1. ITALIAN ART.—The revival of the fine arts in Italy, with special reference to the history of painting in Tuscany and Umbria during the

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early Renaissance. Lectures and collateral reading. The work is illustrated by a large and growing collection of photographs and casts. *One hour a week.* Given in the fall term of even years.

At 2. ITALIAN ART.—A continuation of course 1, dealing chiefly with the masters of the high Renaissance in Florence and Rome. *One hour a week.* Given in the spring term of odd years.

At 3. ITALIAN ART.—Painting in the north of Italy, and the culmination of the Italian Renaissance in the Venetian masters. Lectures and collateral reading. *One hour a week.* Given in the fall term of odd years.

At 4. ITALIAN ART.—A continuation of course 3. *One hour a week.* Given in the spring term of even years.

HISTORY

PROFESSOR FELLOWS; PROFESSOR COLVIN.

Hy 1. HISTORY OF THE UNITED STATES.—The period from 1750 to the Civil War. Formation of the constitution, and rise of political parties; growth of nationality; foreign relations; question of nullification; conflict between states and federal government; territorial expansion; the slavery struggle. *Three hours a week.* Alternate years.

Hy 2. HISTORY OF THE UNITED STATES.—A continuation of course 1. The constitution during the Civil War; foreign relations and questions of international law; theories, and actual process of reconstruction; results of the war; new problems. *Three hours a week.* Alternate years. Given in 1905-6.

Hy 3. HISTORY OF ENGLAND.—From early times to the beginning of the Stuart period. Special attention is given to social and industrial conditions. *Two hours a week.* Fall term.

Hy 4. HISTORY OF ENGLAND.—From the beginning of the Stuart period to the present. *Three hours a week.* Spring term.

Hy 5. INDUSTRIAL AND SOCIAL HISTORY OF ENGLAND.—The rural manor, town guilds and foreign trading; Black Death and Peasants' Rebellion; breaking up of the medieval system; expansion of England; industrial revolution; government control; extension of voluntary association. For advanced students. *Two hours a week.*

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Hy 6. EUROPE IN THE NINETEENTH CENTURY.—A general course emphasizing political and constitutional changes. *Two hours a week.* Given in the spring term of odd years.

Hy 7. MEDIEVAL HISTORY.—A general course covering the period from 395 to 1500 A. D. The disintegration of the Roman Empire; ecclesiastical institutions; feudalism; struggle between the papacy and the empire; rise of modern nations. Required of major students in history. *Three hours a week.* Fall term.

Hy 8. MODERN HISTORY.—Continuation of Hy 7 to the present time. A rapid survey of the Reformation, the absolute monarchy in France, the French Revolution, the Napoleonic era, and Europe in the nineteenth century. *Three hours a week.* Spring term.

Hy 9. HISTORY OF MODERN CONTINENTAL EUROPE.—The period from the peace of Utrecht to the fall of Napoleon I. *Three hours a week.* Fall term. Open to students that have taken courses 7 and 8.

Hy 10. HISTORY OF MODERN CONTINENTAL EUROPE.—The period since the fall of Napoleon I. *Two hours a week.* Spring term. Open to students that have taken course 9.

Hy 11. THE RENAISSANCE AND THE REFORMATION.—The period from 1300 to 1648 A. D. *Two hours a week.* Fall term. Open to students that have taken courses 7 and 8.

Hy 12. THE RENAISSANCE AND THE REFORMATION.—A continuation of course 11. *Two hours a week.* Spring term.

Hy 13. Historical construction and criticism. *One hour a week.*

HORTICULTURE

PROFESSOR MUNSON; MR. ERNST.

Ht 1. GENERAL HORTICULTURE.—A discussion of the general principles underlying the culture of domesticated plants. Lectures. *Two hours a week.* Spring term.

Ht 2. PRINCIPLES OF FRUIT GROWING.—A study of conditions and of methods of culture of orchards and small fruits. Lectures and textbook. *Two hours a week.* Fall term.

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Ht 3. LABORATORY HORTICULTURE.—Practical work in orchard and gardens supplementing course 2. *† Two hours a week.* Fall term.

Ht 4. GENERAL AND ORNAMENTAL GARDENING.—The culture of garden vegetables in the field and under glass; market and home gardening; propagation of plants; the principles of landscape art and their application to rural conditions; rural school grounds and cemeteries; plans for improving home grounds. *Three hours a week.* Spring term.

Ht 5. HANDICRAFT.—Practical work in green-houses, gardens, and orchards, with familiar talks. *† Four hours a week.* Spring term.

Ht 6. SYSTEMATIC POMOLOGY.—Lectures and critical studies of the leading natural groups of fruits. Open to students that have taken Bl 21, and Ht 2. *One hour a week.* Fall term.

Ht 7. THE LITERATURE OF HORTICULTURE.—A study of the literature of gardens and of cultivated plants, with reviews of current periodicals. Open to juniors and seniors. *One hour a week.* Spring term.

Ht 8. THE EVOLUTION OF CULTIVATED PLANTS.—The origin, distribution, and variation of cultivated plants, and a discussion of the current hypotheses of organic evolution as applied to their modification; studies in heredity, and the improvement of types. Open to juniors and seniors. *Two hours a week.* Fall term.

Ht 9.—HORTICULTURAL INVESTIGATIONS.—Advanced work for those desiring to become teachers or investigators. Open to seniors or to graduate students. *Time to be arranged.*

LATIN

PROFESSOR CHASE.

Lt 1. LIVY AND CICERO.—Livy, History of Rome, selections from Books XXI and XXII; Cicero, De Senectute; Latin composition based upon the authors read. *Four hours a week.* Fall term.

Lt 2. HORACE.—Selections from the Satires, Epistles, Epodes and Odes; classical mythology. *Four hours a week.* Spring term.

Courses 1 and 2 are required of freshmen in the Classical Course.

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Lt 3. PLAUTUS AND TERENCE.—The Captivi, Trinummus, or Menæchmi of Plautus; the Andria, Adelphœ, or Phormio of Terence; lectures on the development of Roman comedy. *Three hours a week.* Fall term.

Lt 4. CICERO AND TACITUS.—Selected letters of Cicero, the Agricola and Germania of Tacitus. *Three hours a week.* Spring term.

Lt 5. PLINY AND TACITUS.—Selected letters of Pliny the younger; readings in the Annals of Tacitus; studies in Silver Latinity. *Two hours a week.* Given in the fall term of odd years. Open to students that have taken courses 1-4.

Lt 6. ROMAN LYRIC POETRY.—Selections from Catullus, Horace, and the Latin hymns of the Christian church; original research. *Two hours a week.* Given in the spring term of even years. Open to students that have taken courses 1-4.

Lt 7. THE ROMAN ELEGIAC POETS.—Selections from Catullus, Tibullus, Propertius, and Ovid; original research. *Two hours a week.* Given in the fall term of even years. Open to students that have taken courses 1-4.

Lt 8. THE ROMAN ELEGIAC POETS.—A continuation of course 7. *Two hours a week.* Given in the spring term of odd years.

Lt 9. ROMAN SATIRE.—Selections from Ennius, Lucilius, Varro, Horace, Persius, Juvenal, Petronius; original research. *Two hours a week.* Given in the fall term of odd years. Open to students that have taken, or are taking, courses 5-6, or 7-8.

Lt 10. ROMAN SATIRE.—A continuation of course 9. *Two hours a week.* Given in the spring term of even years.

Lt 11. ROMAN PHILOSOPHY.—Lucretius (selections); Cicero (selections from the Academica, De Officiis, Tusculanæ Disputationes, De Finibus, De Natura Deorum); Seneca (De Providentia, De Vita Beata); lectures on the history and development of ancient philosophy; original research. *Two hours a week.* Given in the fall term of even years. Open to students that have taken, or are taking, courses 5-6 or 7-8.

Lt 12. ROMAN PHILOSOPHY.—A continuation of course 11. *Two hours a week.* Given in the spring term of odd years.

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Lt 13. ROMAN LITERATURE.—General introduction to the subject; illustrative class-room readings; a choice of one of six courses of collateral reading of Roman authors. *Three hours a week.* Given in the fall term of even years. Open to students that have taken courses 1-4.

Lt 14. ROMAN LITERATURE.—A continuation of course 13. *Three hours a week.* Given in the spring term of odd years.

Lt 15. ROMAN RHETORIC AND ORATORY.—Quintilian (selections from the *Institutio Oratoria*); Tacitus (*Dialogus de Oratoribus*); Cicero (selections from the *Brutus*, *De Oratore*, *Orator*); a study of sample orations of Cicero, and of some of the fragments of Roman oratory. *Two hours a week.* Given in the fall term of odd years. Open to students that have taken courses 1-4.

Lt 16. ROMAN RHETORIC AND ORATORY.—A continuation of course 15. *Two hours a week.* Given in the spring term of even years.

Lt 17a. ROMAN TOPOGRAPHY.—Lectures on the development of the city of Rome and the present condition of its ancient ruins, preceded by a glance at the geography of the Italian peninsula. Illustrated by maps, photographs, and stereopticon views. *One hour a week.* Given in the fall term of odd years. Open to students that have taken courses 1-4.

Lt 17b. ROMAN TOPOGRAPHY.—A continuation of course 17a. *One hour a week.* Given in the spring term of even years.

Lt 18. ROMAN PRIVATE LIFE.—Text-book work, supplemented by collateral reading and lectures upon some of the more important and interesting customs and institutions of Roman every-day life. *One hour a week.* Given in the fall term of odd years. Open to students that have taken courses 1-4.

Lt 19a. LATIN WRITING.—Exercises in the translation of English into Latin with special reference to style. *One hour a week.* Given in the fall term of even years. Open to students that have taken courses 1-4.

Lt 19b. LATIN WRITING.—A continuation of course 19a. *One hour a week.* Given in the spring term of odd years.

Lt 20. ROMAN EPIGRAPHY.—The principles of the science, and the interpretation of selected inscriptions. *One hour a week.* Given in the spring term of even years. Open to students that have taken courses 1-4.

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Lt 21. RAPID READING OF LATIN.—Practice in reading without translation. Selections from various authors. Especially adapted for students expecting to teach the language. *One hour a week.* Spring term. Open only to students whose major subject is Latin.

Lt 22a. LATIN GRAMMAR.—A discussion of the fundamental principles of word form and syntax in the Latin language. Lectures and recitations. *One hour a week.* Given in the fall term of odd years.

Lt 22b. LATIN GRAMMAR.—A continuation of Lt 22a. *One hour a week.* Given in the spring term of even years.

MATHEMATICS AND ASTRONOMY

PROFESSOR HART; MR. BUCK; MR. WILLARD; MR. MORLEY.

Ms 1. SOLID GEOMETRY.—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. The text-book is Wells's Solid Geometry. *Five hours a week for ten weeks.* Spring term. Required of all freshmen in the B. A. courses, and of those in the B. S. courses that did not offer it for admission.

Ms 2. ALGEBRA.—A brief review of the theory of exponents, quadratic equations, the binomial theorem, and the progressions; indeterminate equations; logarithms, including practice in the solution of numerical exercises; undetermined coefficients; partial fractions; exponential and logarithmic series, and the computation of logarithms; permutations and combinations; theory of equations. The text-book is Downey's Higher Algebra. *Five hours a week.* Fall term, first fourteen weeks.

Ms 4. PLANE TRIGONOMETRY.—The text-book is Crockett's Trigonometry. *Five hours a week.* Fall term, last four weeks; spring term, first eight weeks. Courses 2, 4, and either 1, 19, or 6a are required of all candidates for the Bachelor's degree.

Ms 5. ANALYTIC GEOMETRY.—A brief study of the point, right line, and conic sections. For students in other than engineering courses who do not intend to elect mathematics beyond course 7. Open to students that have taken courses 2 and 4. The text-book is Wentworth's Analytic Geometry. *Two hours a week.* Fall term.

Ms 6a. ANALYTIC GEOMETRY.—A study of the point, line, and circle. Open to students that have taken courses 1, 2 and 4. The text-book is

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Ashton's Analytic Geometry. *Five hours a week.* Spring term, last ten weeks.

Ms 6b. ANALYTIC GEOMETRY.—A continuation of course 6a. Conic sections; éléments of solid analytic geometry. *Five hours a week.* Fall term, first eight weeks.

Ms 7. CALCULUS.—Differentiation of the elementary forms of algebraic and transcendental functions; successive differentiation; differentials; integration of the elementary forms; integration between limits. Open to students that have taken courses 1, 2, 4, and either 5, or 6a and 6b. The text-book is Murray's Infinitesimal Calculus. *Five hours a week.* Fall term, last ten weeks.

Ms 8. CALCULUS.—A continuation of course 7. Integration as a summation; various methods of integration. Applications of differential and integral calculus. *Five hours a week.* Spring term.

Ms 9. DESCRIPTIVE ASTRONOMY.—The text-book is supplemented by informal lectures, and illustrated by lantern slides, the Trouvelot drawings of celestial objects, and work in the observatory. Open to students that have taken courses 1, 2, 4, and, preferably, Ps 1 and Ps 5. The text-book is Young's Manual of Astronomy. *Three hours a week.* Fall term.

Ms 10. PRACTICAL ASTRONOMY.—A course arranged to meet the needs of engineering students, and consisting mainly of problems in the conversion of time, the determination of terrestrial latitudes and longitudes, and the establishment of meridian lines. The data for these problems are taken largely from the students' own observations, and the course is intended to emphasize the necessity of careful work in the field, as well as accurate and well arranged computations. The instruments employed are the sextant, artificial horizon, portable chronometer, theodolite, and vertical circle. Open to students that have taken courses 9, 4, and 19. *Two hours of recitations or lectures and two hours of observatory work a week.* Spring term.

Ms 11. ADVANCED ALGEBRA.—Determinants and the solution of higher equations. Open to students that have taken courses 1, 2 and 4. *Three hours a week.* Spring term.

Ms 12. ADVANCED INTEGRAL CALCULUS.—A course based upon Byerly's Integral Calculus. Open to students that have taken courses 6, 7 and 8. *Three hours a week.* Given in the fall term of odd years.

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Ms 13. ADVANCED INTEGRAL CALCULUS.—A continuation of course 12. *Two hours a week.* Given in the spring term of even years.

Ms 15. DIFFERENTIAL EQUATIONS.—The text-book is Murray's Differential Equations. Open to students that have taken courses 7 and 8. *Two hours a week.* Given in the spring term of odd years.

Ms 16. PRACTICAL ASTRONOMY.—The theory and use of the sextant, universal instrument, transit, and equatorial. Open to students that have taken courses 6, 7, 8, 9, 19, and, preferably, 10. *Three hours a week.* Given in the fall term of odd years.

Ms 17. PRACTICAL ASTRONOMY.—A continuation of course 16. *Three hours a week.* Given in the spring term of even years.

Ms 19. SPHERICAL TRIGONOMETRY.—A continuation of course 4, with additional problems and applications to spherical astronomy. *Two hours a week.* Fall term.

Ms 20. SOLID ANALYTIC GEOMETRY.—Lectures based on Smith's Solid Geometry. *Three hours a week.* Given in the fall term of even years.

MECHANICAL ENGINEERING

PROFESSOR JEWETT; MR. COLE; MR. GUNN; MR. DAVEE.

Me 1. WOODWORK.—A number of graded exercises in woodworking, designed to give the students familiarity with the tools used in modern woodworking practice, and also to teach him to work from dimensioned drawings. These exercises lead up to pattern making. The pattern work consists of making complete patterns and core boxes from drawings. A lecture course supplements the work in the shop. Charge for materials, \$4.00. † *Four hours a week.* Fall term.

Me 2. FORGE WORK.—Forging; welding; tool dressing. A set of lathe tools and cold chisels for use in machine work is made by each student. Charge for material, \$5.00. Cost of hammer, calipers and scale, about \$2.50. The text-book used is Bacon's Forge Practice. † *Four hours a week.* Spring term.

Me 3. DRAWING.—Reading and tracing detail drawings and penciling simple details. Especial attention is given to lettering. † *Two hours a week.* Fall term.

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Me 4. KINEMATICS.—A study of motion in machine construction and the elements of machines, including links, gears and cams. The text book is Schwamb and Merrill's Elements of Mechanism. *Three hours a week, first nine weeks; † six hours a week, second nine weeks.* Spring term.

Me 5. MACHINE WORK.—Exercises in filing and chipping; lathe work exercises on planer, shaper and milling-machine; making of cut gears, machinist taps, etc. This course is accompanied by lectures on special machinery and modern shop management. Charge for materials, \$5.00 per term. *† Eight hours a week throughout the year for Mechanical Engineering students. † Four hours a week throughout the year for Electrical Engineering students.*

Me 6. FOUNDRY WORK.—Foundry instruction is given in moulding, mixing of metals, operation of cupolas, etc. The work is assigned in connection with Me 5, ten per cent of the hours registered for under Me 5 being applied to foundry work.

Me 7. VALVE GEARS.—The principal steam engine valve motions are studied in order to enable the student to gain a knowledge of the method of designing simple valve mechanisms. Special attention is given to designing valves by the use of the Zeuner diagram, with the solution of practical problems in the drawing-room. The text-book is Peabody's Valve Gears for Steam Engines. *Two hours a week, first nine weeks, and † four hours a week, second nine weeks.* Fall term.

Me 8. MACHINE DESIGN.—This course is a continuation of Me 4. Its object is the study of advanced machine design with reference to the selection of materials, proportioning of parts, designing of fly wheels, etc. In connection with this course the student will be required to design some machine in the drawing-room. The text-book is Jones's Machine Design, Part Two. *Four hours a week, first nine weeks, and † eight hours a week, second nine weeks.* Spring term.

Me 9. MATERIALS OF ENGINEERING.—Metallurgy of iron, steel, copper and the principal alloys. Physical properties of materials discussed and investigated. *Two hours a week.* Fall term.

Me 10. FUELS.—Heating value, supply and distribution of various fuels; types of furnaces; methods of stoking. The text-book is Kent's Steam Boiler Economy. *Two hours a week.* Fall term.

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Me 11. STEAM ENGINEERING.—The fundamental theories relating to the steam engine and other heat engines. The text-book is Reeve's Thermodynamics of Heat Engines. *Three hours a week.* Fall term.

Me 12. STEAM BOILER DESIGN.—Complete design of some type of steam boiler, worked up in the drawing-room. \dagger *Six hours a week.* Fall term.

Me 13. HYDRAULIC MACHINERY.—A brief lecture course on the elements of hydraulics, followed by the theory and design of the turbine and other standard water wheels and water motors; practical problems in the drawing-room on design of turbines. \dagger *Four hours a week.* Fall term.

Me 14. MARINE MACHINERY.—A course of descriptive lectures on the types and processes of construction of machinery commonly seen on steamships. Taken by students specializing in Marine Engineering. *Two hours a week.* Fall term.

Me 15. MECHANICAL LABORATORY.—Testing materials, lubricants, steam boilers and engines, gasoline engines, etc. \dagger *Three hours a week for juniors,* spring term. \dagger *Four hours a week for seniors.* Fall and spring terms.

Me 16. STEAM ENGINEERING.—A continuation of course 11, indicating the connection between theory and practice in steam engines, steam turbines, air compressors, refrigerating machines, and gas engines. *Two hours a week.* Spring term.

Me 17. STEAM ENGINE DESIGN.—Detailed design of some type of steam engine, accompanying course 16. \dagger *Twelve hours a week for nine weeks.* Spring term.

Me 18. GRAPHIC STATICS.—The principles of graphic statics and their application to problems of design. \dagger *Four hours a week.* Spring term.

Me 19. MARINE ENGINEERING.—The problem of ship propulsion and propeller design. Taken by students specializing in Marine Engineering. *Two hours a week.* Spring term.

Me 20. HEATING AND VENTILATION OF BUILDINGS.—A lecture course. *One hour a week.* Spring term.

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Me 21. SEMINARY.—General discussion of leading articles appearing in current engineering literature. *One hour a week.* Fall and spring terms.

Me 22. THESIS.—The results of some original investigation or design presented in proper form. The subject must be submitted at, or before, the close of the fall term. *† twelve hours a week for nine weeks.* Spring term.

MECHANICS AND DRAWING

PROFESSOR WESTON; MR. GROVER; MR. COLE.

Md 1. DRAWING.—Free-hand work in perspective and model drawing; lettering. *† Four hours a week.* Fall term.

Md 2. MECHANICAL DRAWING.—Instruction and practice in the care and use of drawing instruments, in the drawing of geometrical problems, and in the use of water colors. The text-book is Anthony's Mechanical Drawing. *† Four hours a week.* Spring term.

Md 3. DESCRIPTIVE GEOMETRY.—Elementary problems; tangents, intersection of planes, cylinders, cones, spheres, etc. The time is divided equally between the recitation room and drawing room. The text-book is Church's Descriptive Geometry. *Two hours a week.* Fall term.

Md 4. DESCRIPTIVE GEOMETRY.—A continuation of course 3. *Two hours a week.* Spring term.

Md 5. MECHANICS.—The principles of statics; the algebraic and graphic solution of statical problems, including simple trusses; exercises in finding the moment of inertia, and center of gravity; the principles of dynamics, shearing force, and bending moment. *Five hours a week.* Fall term.

. Md 6. MECHANICS.—A continuation of course 5. *Five hours a week.* Spring term.

Md 7. ADVANCED MECHANICS.—General principles of kinematics, statics, and kinetics; the mathematical theory of elasticity; the theory of the potential function, with applications to problems in gravitation, hydro-mechanics, etc. *Two hours a week.* Fall term. Elective for seniors whose major work is in engineering, mathematics, or physics.

Md 8. ADVANCED MECHANICS.—A continuation of course 8. *Three hours a week.* Spring term.

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MILITARY SCIENCE AND TACTICS

PROFESSOR SYMONDS.

Mt 1. MILITARY, FIRST YEAR'S COURSE.

(a) **PRACTICAL:**

- 1—U. S. Infantry Drill Regulations to include the School of the Battalion, Advance and Rear Guards, Outposts, Marches and Ceremonies.
- 2—Infantry Target Practice.
- 3—Field Service Regulations.
- 4—Guard Duty.

(b) **THEORETICAL:**

- 1—U. S. Infantry Drill Regulations to include the School of the Company.
- 2—Manual of Guard Duty.
- 3—Field Service Regulations.
- 4—Small Arms Firing Regulations.

Required of all students, except as provided on p. 32. *Five hours, or the equivalent, a week, counting one credit.*

Mt 2. MILITARY, SECOND YEAR'S COURSE.

(a) **PRACTICAL:**

The same as course Mt 1 (a).

(b) **THEORETICAL:**

- 1—U. S. Infantry Drill Regulations, School of the Battalion, Advance and Rear Guards, Outposts, Marches and Ceremonies.
- 2—Records and Official Papers.
- 3—Small Arms Firing Regulations.

Open to all who have completed course 1. All will be non-commissioned officers. *Five hours, or the equivalent, a week, counting one credit.*

Mt 3. MILITARY, THIRD YEAR'S COURSE.

(a) **PRACTICAL:**

Duties consistent with rank in carrying out (a) in courses 1 and 2.

(b) **THEORETICAL:**

Assistant instructors over those taking course Mt 1 (b).

Open to all who have completed course 2. All will be officers, or non-commissioned officers. *Five hours, or the equivalent, a week, counting one credit.*

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Mt 4. MILITARY, FOURTH YEAR'S COURSE.

(a) PRACTICAL:

The same as for course Mt 3 (a).

(b) THEORETICAL:

Assistant instructors over those taking course Mt 2 (b).

Open to all who have completed course 3. All will be officers. *Five hours, or the equivalent, a week, counting one credit.*

PHARMACY

PROFESSOR JACKMAN.

Pm 1. PHARMACEUTICAL CHEMISTRY.—Chemical formulæ; principles, chemical reactions; chemical equations, with special reference to pharmaceutical processes. The text-book is Prescott and Johnson's Qualitative Chemical Analysis. *Five hours a week.* Fall term.

Pm 2. PHARMACY.—Pharmacopœias, dispensatories, etc.; weights and measures; specific gravity; pharmaceutical uses of heat; pharmaceutical arithmetic and problems; the chemical elements, official salts, their preparations; organic compounds, their official preparations; official drugs, their preparations; animal preparations; extemporaneous pharmacy; the principles of dispensing, etc. The text-book is Caspari's Pharmacy. *Five hours a week.* Fall term.

Pm 3. LABORATORY PHARMACY.—Official preparations and tests. The operations of manufacturing pharmacy, including the preparation of granular and scale salts, infusions, syrups, tinctures, and other galenicals; official tests of chemicals, drugs, and preparations, for identity, strength and adulteration; drug assaying. The text-books are Caspari's Pharmacy and the U. S. Pharmacopœia. † *Twelve hours a week.* Fall term.

Pm 4. PHARMACOPŒIA.—A complete review of the pharmacopœia, with special reference to the chemical and pharmaceutical principles involved in tests and preparations. The text-books are Caspari's Pharmacy and the U. S. Pharmacopœia. *Five hours a week.* Spring term.

Pm 5. INORGANIC PHARMACOGNOSY.—Nomenclature; practical exercises in the identification of specimens. The text-book is the U. S. Pharmacopœia. *Two hours a week.* Fall term.

Pm 6. ORGANIC PHARMACOGNOSY.—Nomenclature; habitat, etc.; practical exercises. The text-books are the U. S. Pharmacopœia and Maisch's Materia Medica. *Four hours a week.* Spring term.

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Pm 7. MATERIA MEDICA.—Chemicals and drugs; their nature, uses, classification, therapeutic action, and doses; poisons, and antidotes. The text-book is Potter's *Materia Medica*. *Three hours a week.* Fall term.

Pm 9. PHARMACY READINGS.—Current pharmacy literature; research and reference readings; abstracting; reports. †*Five hours a week.* Spring term.

Pm 10. LABORATORY PHARMACY.—A continuation of course 3. †*Five hours a week.* Spring term.

Pm 11. PRESCRIPTIONS.—Critical examination of prescriptions from actual files, with reference to inelegance, and to physiological, pharmaceutical, and chemical incompatibility; doses; methods and order of compounding, etc. The text-book is Ruddiman's *Incompatibilities in Prescriptions*. *Three hours a week.* Spring term.

PHILOSOPHY

PROFESSOR FERNALD.

Pl 1. PSYCHOLOGY.—Among the topics considered are sensation, structure and functions of the brain, conditions of neural activity, consciousness, attention, conception, discrimination, association, memory, imagination, perception, reasoning, instinct, emotions and sentiments, will as volition, will as choice, and will in relation to character. The text-book is James's *Psychology (Briefer Course)*. *Three hours a week.* Fall term.

Pl 2. LOGIC.—The object of this course is to give the student a just appreciation of the functions of language as a means of expressing thought, and a familiarity with the principles of deductive and inductive reasoning. The student is given frequent drills in the application of logical principles. The text-book is Ryland's *Logic*. *Three hours a week.* Spring term.

Pl 3. HISTORY OF PHILOSOPHY.—The text-book is Weber's *History of Philosophy*. *Three hours a week.* Given in the fall term of odd years.

Pl 4. PEDAGOGY.—The principles of psychology applied to the art of teaching. The order in which the several powers of the mind become active; their relative activity and development at successive school periods. The principles and methods of teaching; oral instruction and the study of books; the recitation, its objects and methods; methods of

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testing, by questions, by topics; examinations; psychical facts applied to moral training. *Three hours a week.* Spring term. This course should be preceded by course 9.

P1 5. COMPARATIVE PSYCHOLOGY.—The psychology of man and of the higher animals compared. A study of other minds than ours with reference to sense-experience, instinct and intelligence, association of ideas, memory, perception of relations, the power to reason, and the emotions. *Two hours a week.* Given in the spring term of even years. Open to juniors and seniors that have taken course 1.

P1 6. ADVANCED PSYCHOLOGY.—Besides special topics in general psychology, this course is designed to include a discussion of such phenomena as sleep and dreams, the hypnotic state, thought transference, illusions and hallucinations. *Two hours a week.* Given in the spring term of odd years. Open to juniors and seniors that have taken course 1.

P1 8. EXPERIMENTAL PSYCHOLOGY.—This course deals with mental processes from the standpoint of experimental study, and seeks to develop the power of introspection of these processes by modern experimental methods. † *Two hours a week.* Fall or spring term; the same course is given each term. Open to students taking course 1, or that have taken course 1, to the limit of the psychological laboratory.

P1 9. HISTORY OF EDUCATION.—Educational systems, methods, theories, and practices of the ancient oriental and classical nations, as also of the nations and peoples of medieval and modern times. A comparison of the school systems of the more advanced nations, especially of those of Germany, France, England, and the United States. The history of education aims to develop, for present and future service, an educational science based on the clear and definite teachings of the past. *Two hours a week.* Fall term. Open to juniors and seniors. Course 9 precedes course 4, in Pedagogy.

P1 10. ADVANCED LABORATORY PSYCHOLOGY.—Experimental and research work. † *Two hours a week.* Spring term. Open to students that have taken course 8.

P1 11. ETHICS.—Theoretical and practical ethics. A lecture course. *Two hours a week.* Given in the fall term of even years. Open to students that have taken course 1.

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PHYSICS

PROFESSOR STEVENS; MR. HAM; MR. BEARCE.

Ps 1. GENERAL PHYSICS.—Lectures on the dynamics of solids, liquids and gases; sound and light; experiments before the class; problems. *Five hours a week.* Fall term. Open to students that have taken Ms 4.

Ps 2. GENERAL PHYSICS.—A continuation of course 1; heat and electricity. *Five hours a week.* Spring term.

Ps 3. ELEMENTARY PHYSICS.—A non-mathematical course, covering the ground of course 1. The recitations are supplemented by lectures and experimental demonstrations. *Four hours a week.* Spring term. Course in Physics. *Four hours a week.* Spring term.

Ps 5. LABORATORY PHYSICS.—The subjects usually included in an under-graduate course. Special attention is given to the reduction of observations, and the tabulation of results. † *Four hours a week.* Spring term. Open to students that have taken either course 1 or course 12.

Ps 6. LABORATORY PHYSICS.—A brief course for students that have taken Ps 3. † *Two hours a week.* Spring term.

Ps 7. OPTICS.—Lectures in continuation of course 1, based chiefly upon Preston's Light and Drude's Optics. *Three hours a week.* Spring term. Open to students that have taken Ms 8.

Ps 8. MATHEMATICAL PHYSICS.—A course in this subject is offered each year. This year a course in Merriman's Least Squares is given. *Two hours a week.* Fall term. Open to students that have taken Ms 8.

Ps 9. MECHANICS AND HEAT.—Advanced laboratory work in continuation of course 5. † *Six hours a week, or four hours a week.* Fall term.

Ps 10. OPTICS.—Advanced laboratory work in continuation of course 5. † *Four hours a week.* Spring term.

Ps 11. ELECTRICITY AND MAGNETISM.—Advanced laboratory work in continuation of course 5. The charge for this course is \$2.50. † *Six hours a week.* Fall term.

Ps 12. GENERAL PHYSICS.—A course covering the ground of course 1, with more attention to the experimental and historical aspects, and

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less to the mathematical. The text-book is Gage's Principles of Physics. *Five hours a week.* Fall term.

Ps 14. THEORY OF ELECTRICAL INSTRUMENTS.—Lectures on the mathematical theory of instruments, and the methods of eliminating errors. *One hour a week.* Fall term.

Ps 15. SPECIAL LABORATORY COURSE.—A course open to students that have completed courses 9, 10 and 11. A subject is assigned for original investigation, or the work of a published research is repeated. [†]*Four hours a week.* Fall term.

Ps 16. SPECIAL LABORATORY COURSE.—A continuation of course 15. [†]*Six hours a week.*

Ps 18. ELECTRICITY AND OPTICS.—Advanced laboratory work in continuation of course 5. [†]*Four hours a week.* Fall term.

ROMANCE LANGUAGES

PROFESSOR SEGALL; MR. SHUTE.

Rm 1. FRENCH.—Elementary Course. Chardenal, Complete French Course. François and Giroud, Simple French. Labiche, Voyage de M. Perrichon; Moi; La Poudre aux Yeux; Les Petits Oiseaux; La Grammaire; La Lettre Chargée; La Cigale chez les Fourmis; La Cagnotte. Mme. Emile de Girardin, La Joie Fait Peur. About, Le Roi des Montagnes. De Vigny, Cinq-Mars. *Five hours a week.* Fall term.

Rm 2. FRENCH.—A continuation of course 1. *Five hours a week.* Spring term.

Rm 3a. FRENCH.—For students that have taken courses 1 and 2, or their equivalent. Fraiser and Squair's Grammar. Loti, Pêcheur d' Islande. Augier, Le Gendre de M. Poirier. Sandeau, Mille de la Seiglière. Pailleron, Le Monde où l'on s' ennuie. Daudet, Le Petit Chose. About, La Mère de la Marquise; L'Homme à l'Oreille cassée. Hugo, Quatre-vingt-treize; La Chûte, Balzac, Le Père Goriot. France, Le Crime de Silvestre Bonnard. *Three hours a week.* Fall term.

Rm 3b. FRENCH.—A continuation of course 3a. *Two hours a week.* Spring term.

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Rm 4a. FRENCH.—Corneille, Horace. Racine, Andromaque. Molière, Le Bourgeois Gentilhomme; L'Avare; Les Femmes Savantes; Tartuffe; Le Misanthrope. La Bruyère, Les Caractères. Beaumarchais, Le Barbier de Séville; Le Mariage de Figaro. Taine, Introduction à l'Histoire de la Litt. Anglaise; Les Origines de la France Contemporaine (extracts). Hugo, Ruy-Blas. Musset, Comédies. Rostand, Cyrano de Bergerac. *Three hours a week.* Fall term.

Rm 4b. FRENCH.—A continuation of course 4a. *Three hours a week.* Spring term.

Rm 5a. FRENCH.—Course in Conversation and Composition. Snow and Lebon, Easy French. François, Prose Composition, Introductory Course; Advanced Course. Kron-Rippmann, French Daily Life. *Two hours a week.* Fall term.

Rm 5b. FRENCH.—A continuation of course 5a. *Two hours a week.* Spring term.

Rm 6a. FRENCH.—The history of the literature of the nineteenth century. This course will be conducted entirely in French. *One hour a week.* Fall term.

Rm 6b. FRENCH.—A continuation of course 6a. *One hour a week.* Spring term.

Rm 9a. SPANISH.—Elementary Course. Loiseaux, Grammar. Hills and Ford, Grammar. Matzke, First Spanish Readings. Padre Isla's Gil Blas. Alarcón, El Capitán Veneno. Manuel Bretón de los Herreros, La Independencia. Mariano José de Larra, Partir á Tiempo. *Three hours a week.* Fall term.

Rm 9b. SPANISH.—A continuation of course 9a. *Three hours a week.* Spring term.

Rm 10a. SPANISH.—For students that have taken course 9. Loiseaux, Spanish Composition. Hills and Ford, Grammar. Miguel Ramos Carrión y Vital Aza, Zaragüeta. Galdós, Marianela. Valdés, Jose, Echegaray, O Locura ó Santidad. Moratín, El Sí de las Niñas. Cervantes, Don Quixote. *Two hours a week.* Fall term.

Rm 10b. SPANISH.—A continuation of course 10a. *Two hours a week.* Spring term.

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Rm 11a. ITALIAN.—An elementary course, elective for students that have completed course 2. Grandgent, Italian Grammar. Bowen, First Italian Readings. *Three hours a week.* Given in the fall term of odd years.

Rm 11b. ITALIAN.—A continuation of course 11a. Grandgent, Italian Composition. Goldoni, La Locandiera. De Amicis, Cuore. Manzoni, I Promessi Sposi. *Three hours a week.* Given in the spring term of even years.

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ORGANIZATION OF THE UNIVERSITY

The University is divided into colleges, each offering several courses upon related subjects. The colleges are interdependent and together form a unit. The organization is as follows:

COLLEGE OF ARTS AND SCIENCES

- The Bachelor of Arts Courses
- The Bachelor of Science Courses
- The Summer Term

COLLEGE OF AGRICULTURE

- The Agricultural Course
- The Extension Courses

COLLEGE OF TECHNOLOGY

- The Chemical Course
- The Chemical Engineering Course
- The Civil Engineering Course
- The Mechanical Engineering Course
- The Electrical Engineering Course
- The Mining Engineering Course
- The Forestry Course

COLLEGE OF PHARMACY

- The Pharmacy Course
- The Short Course in Pharmacy

THE AGRICULTURAL EXPERIMENT STATION

COLLEGE OF LAW

GENERAL STATEMENT

The College of Arts and Sciences, the College of Agriculture, the College of Technology, and the College of Pharmacy offer four years' courses leading to the appropriate bachelor's degree. They have the following common requirements for graduation:

1. English, one year, five hours a week, or the equivalent divided between two years.
2. Mathematics, one year, five hours a week.

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3. Science (Chemistry, Physics, Botany, or Biology), one year, five hours a week, of which time an important part must be occupied with laboratory work.

4. Language (Greek, Latin, German, French), the equivalent of one year, five hours a week. A student beginning German or French must receive at least two credits in the subject to count it toward a degree.

5. Military Science and Tactics, one year, five hours a week.

The science requirement demands a year's work in some one science, and is not fulfilled by fractions of a year's work in two or more sciences. In making up the language requirement, work done in preparation for college may be counted, but two years' preparatory study will be reckoned as one year of college work.

Twenty-five credits (one credit is given for a recitation course that meets five hours a week, or for a laboratory course that meets ten hours a week, for one half year), are required for graduation in the College of Liberal Arts, and the College of Agriculture; thirty credits are required for graduation in the College of Technology, and the College of Pharmacy.

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COLLEGE OF ARTS AND SCIENCES

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.

President of the University

JAMES STACY STEVENS, M. S. *Dean and Professor of Physics*

MERRITT CALDWELL FERNALD, Ph. D., LL. D.

Professor of Philosophy

ALFRED BELLAMY AUBERT, M. S.

Professor of Chemistry

ALLEN ELLINGTON ROGERS, M. A.

Professor of Civics

LUCIUS HERBERT MERRILL, B. S.

Professor of Biological Chemistry

JAMES NORRIS HART, C. E., M. S.

Professor of Mathematics and Astronomy

FREMONT LINCOLN RUSSELL, B. S., V. S. *Professor of Biology*

HORACE MELVYN ESTABROOKE, M. A. *Professor of English*

JOHN HOMER HUDDILSTON, Ph. D. *Professor of Greek*

GILMAN ARTHUR DREW, Ph. D. *Professor of Biology*

RALPH KNEELAND JONES, B. S. *Librarian*

*ORLANDO FAULKLAND LEWIS, Ph. D.

Professor of Germanic Languages

CHARLES J. SYMONDS. *Professor of Military Science and Tactics*

JACOB BERNARD SEGALL, Ph. D.

Professor of Romance Languages

GEORGE DAVIS CHASE, Ph. D. *Professor of Latin*

MAX CARL GUENTHER LENTZ.

Acting Professor of Germanic Languages

CAROLINE COLVIN, Ph. D. *Assistant Professor of History*

GUY ANDREW THOMPSON, M. A. *Assistant Professor of English*

THOMAS BUCK, B. S. *Instructor in Mathematics*

HENRY MARTIN SHUTE, M. A. *Instructor in Modern Languages*

MARSHALL BAXTER CUMMINGS, M. S. *Instructor in Botany*

GRANT TRAIN DAVIS, B. A. *Instructor in Chemistry*

HARLEY RICHARD WILLARD, M. A. *Instructor in Mathematics*

RAYMOND KURTZ MORLEY, M. A. *Instructor in Mathematics*

* Absent on leave.

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MATTHEW HUME BEDFORD, PH. D.
WALTER EVERETT PRINCE, M. A.
WILLIAM ROSS HAM, B. A.

Instructor in Chemistry
Instructor in English
Instructor in Physics

IRA MELLEN BEARCE, B. S.	<i>Tutor in Physics</i>
STEPHEN JOHN FARRELL.	<i>Assistant in Physical Training</i>
CLARA ESTELLE PATTERSON.	<i>Assistant Librarian</i>
RALPH LOWE SEABURY, B. S.	<i>Assistant in Chemistry</i>
FLORENCE VALENTINE, B. S.	<i>Assistant in Biology</i>
ADELBERT WELLS SPRAGUE, B. S.	<i>Assistant in English</i>

GENERAL INFORMATION

The COLLEGE OF ARTS AND SCIENCES comprises:

- The Bachelor of Arts Courses
- The Bachelor of Science Courses
- The Summer Term

The aim of this college is to furnish a liberal education, and to afford opportunity for specialization along literary, philosophical, and general and special scientific lines. Each student must select in some one department, work to be pursued three or four years, five recitations a week. Any one of the following departments may be chosen for major work: Biology (including zoology, botany, physiology, and entomology), chemistry, civics, English, German, Greek, history, Latin, mathematics and astronomy, psychology (including education), physics, Romance languages (including French, Spanish, and Italian).

In many cases the selection of a major subject need not be made before the beginning of the sophomore year. A student may change his major subject with the consent of the professors in charge of the department which he leaves and the one which he wishes to enter; but no student will be graduated who has not finished all the work required for graduation in some one department, no matter how much work he may have done in other departments. The major subject must include work counting not less than six, nor more than eight credits. In the case of departments in which less work is offered than amounts to six credits, this amount must be made up from such other related departments as the professor under whose direction the major is taken may prescribe. The remainder of the student's work may be selected from any department or departments of the University. This must be done with the advice of the head of the department in which the student has chosen his major subject, that it may bear some useful relation to his other work.

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THE BACHELOR OF ARTS COURSES

Students in the College of Arts and Sciences that have met the entrance requirements, and have taken a year's Latin in college, are candidates for the degree of Bachelor of Arts. This represents the minimum amount of work that must be taken in the classical languages. Opportunity is offered the student to take special work in Greek or Latin or both during his course.

Upon the completion of one year's prescribed graduate work in residence, or two years' in absence, including the presentation of a satisfactory thesis and examination at the University, he receives the degree of Master of Arts.

THE BACHELOR OF SCIENCE COURSES

These courses are arranged for those who seek a broad general training, based largely upon the study of some one subject as a major, with the remainder of the work selected from the wide range of subjects offered at the University.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis and examination at the University, he receives the degree of Master of Science.

No outline of the courses in the College of Arts and Sciences is given in the catalogue, but students may have such an outline presented to them by applying to the professor in charge of the department in which he is interested. Groups of studies may be made up which would be desirable for students intending to prepare for teaching, or to enter upon the study of law, medicine, or theology.

THE SUMMER TERM

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, PH. D., L. H. D., LL. D.

President of the University

JAMES STACY STEVENS, M. S.

Dean in the College of Arts and Sciences. Physics

MERRITT CALDWELL FERNALD, PH. D., LL. D. *Pedagogy*

ALFRED BELLAMY AUBERT, M. S. *Chemistry*

JOHN HOMER HUDDILSTON, PH. D. *Latin*

WILLIAM DANIEL HURD, B. S. *Nature Studies*

EUGENE LOUIS RAICHE, *French*

JAMES PERRY WORDEN, PH. D. *German*

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ARTHUR GUY TERRY, PH. M.	<i>History</i>
GUY ANDREW THOMPSON, M. A.	<i>English</i>
THOMAS BUCK, B. S.	<i>Mathematics</i>
MARSHALL BAXTER CUMMINGS, M. S.	<i>Botany</i>
RALPH KNEELAND JONES, B. S.	<i>Librarian</i>

GENERAL INFORMATION

The summer term of the University of Maine is not a summer school, but so far as is practicable the work is coördinate with that of the remainder of the year. The majority of the courses offered are of college grade and, when completed, the student receives full credit on the University books. There are no examinations for admission, and students are permitted to enter any class in which they can satisfactorily carry on the work. Before counting this work toward a collegiate degree, the college entrance conditions must be met.

Three classes of students may be benefited by the work of this term:

1. Teachers in the high schools and grammar schools who wish to fit themselves for more advanced positions. A small expenditure of time and money in the summer vacation may be the means of securing a more desirable position. School superintendents are coming to discriminate in favor of those teachers who advance in their work.
2. College students who may wish to get ahead in their course, or who may have back work to make up. A student should be able to make one credit (the equivalent of a five hours' study for eighteen weeks) during the summer term.
3. Courses in physics, chemistry, and mathematics are offered covering the work of the high school. In this way a student who is slightly deficient at the end of the school year may prepare himself for college. These courses give no credit on the University books.

The location of the University of Maine is an ideal one for a summer session. Orono is accessible either by the Maine Central or Bangor and Aroostook railroads, or the Bangor, Orono, and Old Town trolley line. The summer climate is delightful and the extensive grounds are available for the use of the students. So far as possible the recitations are placed in the forenoon and the special lectures in the evening, leaving the afternoons free for study and recreation.

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COURSES OF INSTRUCTION

BOTANY

MR. CUMMINGS:

1. Field Botany. This course will deal with the kinds, habits, and habitats of plants about the University, including short excursions to several outlying regions for collecting and identifying species in field and forest. Attention will also be given to methods of pollination, modes of migration, association and mutual benefits of flowers and insects, and other factors of environment, such as light, heat, soil, water, gravity, and the effects of other plants. There will be a few lectures, some reference reading, and a small amount of laboratory work confined mostly to rainy days.
2. Laboratory Botany. A course designed primarily for teachers and dealing with laboratory methods. Exercises will be given in collecting and preserving material of different kinds in different ways. Considerable time will be devoted to experimental work on the physics and physiology of plant life based on the phenomena of absorption and movement of solutions, transpiration, respiration, carbon assimilation, and reproduction. Attention will also be given to the teaching of botany in secondary schools.

CHEMISTRY

PROFESSOR AUBERT:

Organic Chemistry. The aliphatic series. Recitations and lectures, illustrated by specimens. Equivalent to course Ch 7 of the catalogue. Text-book: Remsen's Organic Chemistry.

Chemical Preparations. The preparation and purification of organic and inorganic compounds. Equivalent to course Ch 12. Text-book: Aubert's Organic and Inorganic Preparations.

Quantitative Analysis. Gravimetric analysis of simple compounds. Equivalent to Ch 16. Text-book: Appleton's Quantitative Chemical Analysis or Quantitative Analysis by Clowes and Coleman.

Volumetric Analysis. Including acidimetry, alkalimetry, oxidimetry, iodimetry, etc. Equivalent to Ch 19 minus Assaying. Text-book: Schimpf's Essentials of Volumetric Analysis.

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Toxicology and Urinalysis. A short course in the determination of the more common poisons and the analysis of urine. Equivalent to Ch 21. Text-book: Aubert's Urinalysis and Toxicology.

ENGLISH

PROFESSOR THOMPSON:

1. English composition and Rhetoric. The work in this course is similar to that of the fall term of the freshman year in the University. It consists of the study of text-books, discussions of principles and methods, and practice in writing. The written work, which is based largely upon the personal observations and experiences of the student, is discussed before the class in order to give practical illustration of principles and methods. Teachers will obtain from this course a familiarity with the methods of teaching English composition followed in the University, and special effort will be made to meet their needs. The text-book used will be Espenshade's Composition and Rhetoric.
2. English Prose. A study of the style and substance of selected writings from the works of English prose writers of the Nineteenth Century. Among the writers dealt with will be Macaulay, Carlyle, Ruskin, Newman, Matthew Arnold, and Stevenson. There will be frequent written reports on the reading assigned, the purpose of the reports being to give practice in writing and to encourage the student toward intelligent interpretation and appreciation of what he reads.
3. English Poetry. A careful and appreciative study of selected poems from the writings of English poets of the early part of the Nineteenth Century. Among the writers dealt with will be Wordsworth, Coleridge, Byron, Shelley, and Keats. An attempt will be made to determine the characteristic merits of the poets studied and to show the relation of these poets to the time in which they lived.
An additional course in Shakespeare (a careful reading of a few of the best plays) will be given, if there is sufficient demand. Should teachers so desire meetings will be appointed for the discussion of problems of teaching English in the schools.

FRENCH

PROFESSOR RAICHE:

1. An elementary course for beginners covering the work done in one year in preparatory schools and in one-half year in college. The books used will be: Chardenal's Complete-

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French Course. For reading and translation, "Sans Famille." (D. C. Heath & Co.) There will also be some elementary French prose composition based on the text read.

2. A more advanced course for those who have studied French in college or preparatory school. The books to be used are: Frazer and Squair's French Grammar (D. C. Heath & Co.), Hugo's *La Chute*, Augier's *Le Gendre de M. Poirier* (D. C. Heath & Co.).

GERMAN

DR. WORDEN:

1. Elementary Course. Harris's German Lessons, Huss's German Reader, Storm's *Immensee*. Intended for students who are deficient in college entrance requirements in German.
2. Advanced Course. Covering part of the work in reading and composition usually done in the second year in German. Lessing's *Minna von Barnhelm*, Harris's German Composition.
3. A lecture course in Germanic literature. These lectures will be of a popular nature and will be open to the public.

HISTORY

MR. TERRY:

1. Modern England. Political and social development of England from the accession of the Stuarts to the reform of 1832.
2. The Civil War and Reconstruction. The causes and effects of the Civil War in America, with some discussion of the condition of the country during the great struggle.
3. Foreign Relations of the United States. History of United States diplomacy since the establishment of the Federal Constitution.

LATIN

PROFESSOR HUDDILSTON:

The needs of the teacher of preparatory Latin will receive special attention; text-books, methods, matter, and manner in preparatory teaching of classics will be handled in weekly conferences. The University possesses a large collection of lantern slides and photographs, and these as well as the other extensive aids for classical instruction will be at hand for the examination and use of students.

1. Virgil. Reading of portions of the *Aeneid* with the double purpose of covering the ground for the needs of college

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entrance requirements, and for the methods available for high-school teachers. Discussion of matter pertaining to Virgilian literature, helps for instruction, the epic style, and other topics that assist in making an appreciative understanding of Virgil.

2. Cicero. Selected orations, including the four against Catiline. Prose composition and syntax so far as time permits will form a feature of this course.

MATHEMATICS

MR. BUCK:

Three or more of the following courses will be given, depending upon the number of candidates indicating their desire to elect them.

1. Plane Trigonometry. The solution of right and oblique plane triangles, and of problems in surveying, together with the use of surveying instruments. No text-book will be required for this course, but those having logarithmic tables should bring them, and also any modern text-book on trigonometry, which will be useful for reference.
2. Solid Geometry. This course is offered especially for the benefit of students who intend to enter college, but who have not been able to complete the requirements in solid geometry. Wentworth's Solid Geometry will probably be used as the text-book, but Philips and Fisher's, Wells's, and other books will be used for reference.
3. College Algebra. The theory of quadratic equations, the binomial theorem and so much of the regular freshman course in algebra as time will permit. Text-book to be selected at the opening of the term.
4. Analytic Geometry. A brief course covering the elements of this subject.

NATURE STUDY

PROFESSOR HURD:

At the last session of the Maine Legislature the committee on education recommended that "Nature Study" or "Elementary Agriculture" be taught in the normal schools of the State. In a short time this work will no doubt be required in many of the public schools. Recognizing the value of the subject, and wishing to coöperate in this movement, the University will offer at its summer session a course for teachers which will familiarize them with the principal phases of the subject and help them to

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carry on such work when called upon to do so. The grounds, land, animals, and other equipment of the University will be used in an illustrative way. Briefly stated the following are some of the topics treated:

Plants:

General Structure. Function and relation of the different parts. Conditions necessary to plant growth. Seed selection and germination. How plants may be improved. Classification and uses of several principal plants used in the industrial world.

Soils:

Origin and composition. Uses. Physical and chemical characteristics. Improvement of soils. Soil exhaustion.

Animals:

Relation of animal life to plant life and other forms of nature. Importance of domestic animals in our daily life. Structure, food, habits, and development of our domestic animals.

Plant Diseases, Insects, and Weeds:

The causes, nature of and common remedies for plant diseases. Friendly and injurious insects and ways of controlling them. A study of the weeds common to the neighborhood and best methods of eradicating.

School Gardens:

A study of the school garden movement of this and other countries. The planning, laying out, and caring for school gardens, putting into practice the principles studied relating to the plant and the soil.

Improvement of School Grounds:

Grading the grounds, making the lawn, selection, arrangement, planting, and caring for trees, shrubs, and flowers, and general methods of procedure.

Nature Economics:

A history and discussion of some of the more important crops and their influence on the industrial and social life of the country. The presentation of such topics in an interesting way to children.

PEDAGOGY

PROFESSOR FERNALD:

Two courses are offered.

1. The Principles of Pedagogy and School Management.
2. History of Education.

Under No. 1, among the topics considered are: the principles of psychology applied to the art of teaching; the order in which the several powers of the mind become active, their develop-

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ment at different school periods, and hence the order of studies based thereon; the principles and methods of teaching; the recitation, its objects and methods; testing by questions, by topics; school incentives; the art of governing; school administration and management and psychical facts applied to moral training. This course is designed to aid the teacher in his effort to attain higher efficiency in the class-room and in the practice of the teacher's art.

Under No. 2, the aim is to develop, for present and future service, an educational science based on the clear and definite teachings of the past. Accordingly, the educational system, methods, theories, and practices of the leading historic nations are studied, with a view of determining what errors of the past to avoid, and what successful methods and practices to adopt. Finally, a brief comparative study is made of the school systems of the present more advanced nations, especially of those of Germany, France, England, and the United States.

The special text-books recommended are: White's *Principles of Pedagogy*, White's *School Management*, and Seeley's *History of Education*, all published by the American Book Company.

PHYSICS

PROFESSOR STEVENS:

1. An elementary laboratory course.
This includes the list of experiments adopted by the four Maine colleges for admission in Physics.
2. Advanced course.
Any laboratory course offered in the University may be taken by students in the summer term who are properly qualified.
3. A series of experimental lectures on general physics.
The grade of the work in this course will be determined by the preparation of the students electing it.

LECTURES

PRESIDENT FELLOWS: *The Development of Modern Germany.*

HON. W. W. STETSON, State Superintendent of Schools:

The Lesson of the Picture.

Some Educational Problems.

PROFESSOR HART: *The Use of the Observatory.*

PROFESSOR STEVENS: *Modern Theories of Matter.*

PROFESSOR ESTABROOKE: *Some Characteristics of Poetry.*

LIBRARIAN JONES: *How to use a Library.*

DR. WORDEN: *Schiller.*

Longfellow and His Friend Freiligrath.

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VESPER SERVICES

A brief religious service is conducted each Sunday afternoon at 4.00 P. M. in the Art Building. This consists of a song service and a brief address by a clergyman from Orono, Bangor, or Old Town.

LIBRARY

Throughout the Summer term the University library of 27,000 volumes and the reading room containing about three hundred periodicals and the Maine daily papers, will be open from 9.00 A. M. to 12 M., and from 2.00 to 5.00 P. M., daily, excepting Sunday and Saturday afternoon.

The library privileges ordinarily accorded to University students, including the home use of books, will be extended to students in the Summer courses.

LABORATORIES, MUSEUMS, AND OBSERVATORY

The laboratories belonging to the departments of physics, chemistry, and botany will be available for use of the students. In the physical laboratory there is ample provision for carrying on the various courses from the preparatory work to that of the graduate student in the University. All necessary apparatus is supplied to the student without charge.

In the chemical laboratory a small charge is made to cover the cost of the articles used. The department is well equipped with modern apparatus.

The botanical laboratory is in charge of the professor of biology. The student is furnished with microscope, specimens, and preparations for advanced work.

The museum is illustrative of the rocks and fauna of Maine, and will be open at stated periods for the use of the students.

The observatory contains an eight-inch telescope, vertical circle, and other instruments of precision. The work of the observatory will be explained by Professor Hart in an evening lecture.

EXPENSES

Tuition for the term of five weeks, covering all charges for instruction in any number of courses that the student may elect, use of library and laboratories, except a small additional fee for those taking laboratory chemistry:

For residents of Maine, \$10.00.

For residents of other states, \$15.00.

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Board and room in any of the University buildings, including light, and necessary furniture, \$20.00 for the term, payable in advance.

RECREATION

Most of the class work will be held during the forenoon, leaving the afternoon and evening free for study and recreation.

On the campus are several excellent tennis courts. The neighboring country affords many attractive excursions, on foot, by bicycle, carriage, or electric cars. Maine's famous seaside resort, Bar Harbor, is but one and one-half hours distant by rail, while Mount Kineo and Moosehead Lake are at only a slightly greater distance and easily accessible.

Within easy riding or wheeling distance are Lakes Pushaw and Chemo, as well as several attractive mountains.

IN GENERAL

Prospective students are invited to consult Dean Stevens, who is in charge of the Summer session, or any of the other instructors, for further details regarding any of the courses, or upon any subject relating to the work. It is the wish of the authorities to offer such courses as will best appeal to the teachers and others who may desire to avail themselves of these privileges.

If there should be a considerable demand for other studies than those named, arrangements will be made to provide for them as far as practicable. In case the registration for any course offered falls below a certain minimum, it may be withdrawn. The list of instructors and the courses outlined in this catalogue were for the summer of 1905. Unimportant changes are likely to be made for the coming term.

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THE COLLEGE OF AGRICULTURE

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.	<i>President of the University</i>
ALFRED BELLAMY AUBERT, M. S.	<i>Professor of Chemistry</i>
LUCIUS HERBERT MERRILL, B. S.	<i>Professor of Biological Chemistry</i>
JAMES NORRIS HART, C. E., M. S.	<i>Professor of Mathematics and Astronomy</i>
FREMONT LINCOLN RUSSELL, B. S., V. S.	<i>Professor of Biology</i>
WELTON MARKS MUNSON, Ph. D.	<i>Professor of Horticulture</i>
HORACE MELVYN ESTABROOKE, M. A.	<i>Professor of English</i>
GILBERT MOTIER GOWELL, M. S.	<i>Professor of Animal Industry</i>
GILMAN ARTHUR DREW, Ph. D	<i>Professor of Biology</i>
RALPH KNEELAND JONES, B. S.	<i>Librarian</i>
*ORLANDO FAULKLAND LEWIS, Ph. D.	<i>Professor of Germanic Languages</i>
CHARLES J. SYMMONDS.	<i>Professor of Military Science and Tactics</i>
WILLIAM DANIEL HURD, B. S.	<i>Professor of Agronomy</i>
JACOB BERNARD SEGALL, Ph. D.	<i>Professor of Romance Languages</i>
MAX CARL GUENTHER LENTZ.	<i>Acting Professor of Germanic Languages</i>
CHARLES PARTRIDGE WESTON, C. E., M. A.	<i>Assistant Professor of Mechanics and Drawing</i>
GUY ANDREW THOMPSON, M. A.	<i>Assistant Professor of English</i>

ARCHER LEWIS GROVER, B. S.	<i>Instructor in Drawing</i>
THOMAS BUCK, B. S.	<i>Instructor in Mathematics</i>
HENRY MARTIN SHUTE, M. A.	<i>Instructor in Modern Languages</i>
MARSHALL BAXTER CUMMINGS, M. S.	<i>Instructor in Botany</i>
GRANT TRAIN DAVIS, B. A.	<i>Instructor in Chemistry</i>
HARLEY RICHARD WILLARD, M. A.	<i>Instructor in Mathematics</i>

*Absent on leave.

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RAYMOND KURTZ MORLEY, M. A.	<i>Instructor in Mathematics</i>
ARTHUR WITTE GILBERT, M. S.	<i>Instructor in Agronomy</i>
MATTHEW HUME BEDFORD, PH. D.	<i>Instructor in Chemistry</i>
WALTER EVERETT PRINCE, M. A.	<i>Instructor in English</i>

STEPHEN JOHN FARRELL.	<i>Assistant in Physical Training</i>
LAURENCE THEODORE ERNST.	<i>Assistant in Horticulture</i>
CLARA ESTELLE PATTERSON.	<i>Assistant Librarian</i>
RALPH LOWE SEABURY, B. S.	<i>Assistant in Chemistry</i>
FLORENCE BAILENTINE, B. S.	<i>Assistant in Biology</i>
ADELBERT WELLS SPRAGUE, B. S.	<i>Assistant in English</i>

GENERAL INFORMATION

The College of Agriculture comprises the departments of agronomy, animal industry, and horticulture, and includes courses in nearly all of the natural sciences, agricultural chemistry, biological chemistry, veterinary science and bacteriology. The aim of the college is to prepare young men to become farmers, teachers of agriculture and sciences in schools and colleges, investigators of agricultural subjects in the United States Department of Agriculture, or experiment station workers.

The work of instruction is organized as follows:

THE COLLEGE COURSES

The Agricultural Course

The Special Course in Agronomy, Animal Industry, and Horticulture

THE EXTENSION COURSES

The School Course in Agriculture

The Winter Courses in Agronomy, Animal Industry, and Horticulture

The Short Course in Horticulture and Poultry Management

The Correspondence and Lecture Courses

THE COLLEGE COURSES

The college courses are designed for those who wish to follow agriculture, animal husbandry, or horticulture as a business, or who purpose becoming teachers or investigators in related sciences. The instruction is arranged with a view to emphasizing fundamental principles and giving the student the largest amount of technical knowledge consistent therewith. To this end the theoretical instruction is associated with practical work and observation on the farm, in the orchard and garden,

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and in the various laboratories of the university; but time is not consumed in merely manual operations.

Certain studies are fundamental to all work in agricultural lines, and these are included among the subjects required in the four years courses. After these fundamental subjects are completed, the fullest latitude is allowed for election. Twenty-five credits are required for graduation.

THE GENERAL COURSE IN AGRONOMY, ANIMAL INDUSTRY, AND HORTICULTURE

The course in Agriculture emphasizes technical training in the branches pertaining to general farming, stock raising, dairying, horticulture, poultry industry, fruit growing, gardening, and agricultural chemistry. The entire agricultural equipment, including the farm, barns, dairy, agricultural machinery, greenhouses, orchards, gardens, college campus, the poultry plant, the flocks, and the herds, is used for instruction. The following subjects are included among those offered in this course, and students are advised to take them in the order given:

FRESHMAN YEAR

<i>Fall Term</i>		<i>Spring Term</i>	
Subject	Hours	Subject	Hours
Ag 1, Agronomy.....	2	An 1, Animal Industry.....	2
Ag 2, Agronomy † 2.....	1	An 2, Animal Industry † 2.....	1
Eh 1, 3, English.....	4	Eh 1, 4, English.....	4
Ch 1, 3, Chemistry.....	3	Ch 2, 4, Chemistry.....	4
Bl 1, 2, Biology.....	3	Bl 9, Biology.....	2
Dr 1, Drawing.....	2	Bl 21, 22, Botany.....	3
Mt 1, Military † 5.....	2½	Mt 1, Military † 5.....	2½
<hr/>		<hr/>	
	17½		18½

SOPHOMORE YEAR

Ag 3, Agronomy † 4.....	2	Ag 4, Agronomy.....	2
An 3, Animal Industry.....	2	Ht 1, Horticulture.....	2
Ch 14, Chemistry † 8.....	4	Ch 29, Chemistry.....	5
Modern Language.....	3	Modern Language.....	2
Eh 2, English.....	1	Eh 2, English.....	1
Ms 2, Mathematics.....	5	Ms 1, 4, Mathematics.....	5
<hr/>		<hr/>	
	17		17

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JUNIOR YEAR

Ag 5, Agronomy.....	3
An 4, Animal Industry.....	2
Ht 2, Horticulture.....	2
Ht 3, Horticulture † 2.....	1
Ch 30, Biological Chemistry.....	5
Modern Language.....	3
An 5, Animal Industry.....	2
An 6, Animal Industry † 6.....	3
Ht 4, Horticulture.....	3
Ht 5, Horticulture † 4.....	2
Modern Language.....	2
Bl 15, Veterinary Science,	
Bl 17, Bacteriology.....	5
Bl 11, Entomology.....	2

SENIOR YEAR

Ag 6, Agronomy, or An 7, Animal Industry, or Ht 6, 8, Horticulture, Elective.....	12	Ag 7, Agronomy, or An 8, Animal Industry, or Ht 9, Horticulture, Elective	13
	—		—
	15		15

The following subjects are included in a major in Agriculture:

Ag 1 to 7.....Agriculture.....	4 credits
Ht 1 to 5.....Horticulture.....	2 credits
An 1 to 6.....Animal Industry.....	2 credits
Ch 30.....Biological Chemistry.....	1 credit

The following courses are included in a major in Horticulture:

Ht 1 to 8.....Horticulture.....	4 credits
Ag 1 to 5.....Agronomy.....	2 credits
Ch 30.....Biological Chemistry.....	1 credit
Bl 21, 22, 29..Botany.....	1 credit

Certain other chemical and biological subjects are prerequisite to those named.

The student who wishes to make Agricultural Chemistry a feature of his work should elect qualitative and quantitative analysis.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis and examination at the University, he receives the degree of Master of Science.

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THE SPECIAL COURSES IN AGRONOMY, HORTICULTURE AND ANIMAL INDUSTRY

The Special Courses are designed for young men who cannot well spend four years in preparing themselves to become farmers, but who wish to secure special training in certain agricultural subjects. No fixed schedule of studies is prescribed, but students may elect along the line of horticulture, or dairying, or general farm crops and farm management.

For admission to this course applicants must be at least eighteen years of age, and must have a good common school education. No formal entrance examinations are required, but students will be admitted, upon recommendation of the Dean after the professor in charge of the work elected shall have satisfied himself of the fitness of each candidate to take the studies desired.

The annual expenses for courses of one year or more are the same as those of students in the four years' courses. *Tuition is free.*

THE EXTENSION COURSES

The Extension Courses are designed to give in the shortest time possible at the University, or directly in the home, the best training in the practical business of agriculture and horticulture, and the greatest amount of knowledge that can be acquired in the time allotted. The extension courses include: The School Course; The Winter Course; The Short Course in Horticulture and Poultry Management; The Correspondence and Lecture Courses.

THE TWO YEARS' SCHOOL COURSE IN AGRICULTURE

This is a course designed to train young men and women who wish to become practical farmers, farm superintendents, dairymen, or gardeners, but who cannot devote time to high school or college training.

The same equipment is used and the same instructors give the work as in the four years' University course, but the work is of a more elementary nature. All the classes are separate and distinct from the four year classes, and in no case will college credit be allowed for work done in the school course.

There are no entrance examinations required of those who desire to enter the school course. Students over fifteen years of age who are prepared for advanced grammar or high school work are eligible for registration. There is no tuition charged in this course, the only expenses being for incidental fees to cover cost of material used in the instruction. These fees are nominal.

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The practical side of the work in this course is strongly emphasized and since students are expected to be able to "do" work and handle men when they have finished. Those taking this course are required to spend the summer vacation between the first and second years in work at the college, for which reasonable wages will be paid, or on some farm approved by the faculty.

On completion of the course a certificate is awarded those who have satisfactorily done the work.

The following is a schedule of the work as given:

FIRST YEAR

Fall Term

Farm Crops and Farm Mechanics
Animal Industry
Orchard and Garden
English
Business Arithmetic and Farm
Accounts
Forge Work
Practical Work

Spring Term

Farm Crops and Farm Mechanics
Animal Industry and Dairy Work
Garden and Orchard
English
Veterinary Science
Carpentry
Practical Work

SECOND YEAR

Fall Term

Farm Crops and Farm Mechanics
Animal Industry
Orchard and Garden
Farm Chemistry
Farm Botany
English
Practical Work

Spring Term

Farm Crops and Farm Mechanics
Animal Industry
Insects
Farm Forestry
Veterinary Science
English
Practical Work

THE WINTER COURSES

The winter courses in Dairying and General Agriculture are designed for practical farmers who wish some training which will enable them to be better farmers, fruit growers, dairymen, or poultrymen, but who cannot leave the farm at other seasons of the year. These courses also help fit men to be managers of farms, creameries or cheese factories.

Special emphasis is given to dairying and if the course is pursued two terms and two seasons' satisfactory work is performed in a butter or cheese factory the student will be granted a certificate of proficiency. These courses begin on the Tuesday following the Christmas recess and continue eight weeks.

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The subjects of farm crops, fertilizers, orcharding, gardening, dairying and butter making, stock breeding and feeding, poultry raising, and veterinary science, are treated in the most practical manner. Very few text books are used, and the expenses for board and room, which are the only other expenses, are very moderate.

THE SHORT COURSE IN HORTICULTURE AND POULTRY MANAGEMENT

On the last Tuesday in March and continuing two weeks the special course in Horticulture and Poultry Management will be given. There is crowded into this short course all of the practical, helpful information possible. It is necessarily somewhat in the nature of an extended farmers' institute, and a special effort is made to outline future work for the students. The following subjects are taken up: Orchard Culture; Small Fruit Culture; Vegetable Gardening; Spraying; Insects and Plant Diseases; Breeds of Poultry; Egg Production; Buildings and Appliances, Incubation, Embryology. The afternoons are devoted to work in the orchard and greenhouses, in pruning, grafting, setting plants, making hot-beds, and other practical subjects; or in the poultry houses and incubator rooms, in studying the breeding and handling of young chickens and growing fowl.

This course emphasizes particularly the practical phases of the subjects studied.

CORRESPONDENCE AND LECTURE COURSES

The College of Agriculture desires to be closely associated with the farming interests of Maine. Whenever the work of the University will allow, some member of the faculty will meet with granges, field meetings, and farmers' clubs, on application from them, and talk over agricultural topics. Circulars and bulletins treating subjects of interest and importance will be published from time to time and will be sent free to all residents of Maine who request them.

For those who cannot spare the time to come to the University for instruction, a course of study to be pursued at home will be laid out. Frequent correspondence with members of the faculty and the reading of such books and other matter as may be suggested will accomplish a great deal in improving farming conditions and home life. Where reading clubs of ten or more are organized by granges or other organizations, and systematic study is being pursued, an officer of the University will meet with such grange or club and discuss questions that arise. The faculty of the college are always glad to receive letters of inquiry and will answer all questions to the best of their ability.

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THE COLLEGE OF TECHNOLOGY

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.	<i>President of the University</i>
ALFRED BELLAMY AUBERT, M. S.	<i>Professor of Chemistry</i>
LUCIUS HERBERT MERRILL, B. S.	<i>Professor of Biological Chemistry</i>
JAMES NORRIS HART, C. E., M. S.	<i>Professor of Mathematics and Astronomy</i>
FREMONT LINCOLN RUSSELL, B. S., V. S.	<i>Professor of Biology</i>
HORACE MELVYN ESTABROOKE, M. A.	<i>Professor of English</i>
JAMES STACY STEVENS, M. S.	<i>Professor of Physics</i>
GILMAN ARTHUR DREW, Ph. D.	<i>Professor of Biology</i>
RALPH KNEELAND JONES, B. S.	<i>Librarian</i>
*ORLANDO FAULKLAND LEWIS, Ph. D.	<i>Professor of Germanic Languages</i>
CHARLES J. SYMONDS.	<i>Professor of Military Science and Tactics</i>
JACOB BERNARD SEGALL, Ph. D.	<i>Professor of Romance Languages</i>
HAROLD SHERBURNE BOARDMAN, C. E.	<i>Professor of Civil Engineering</i>
WALTER KIERSTED GANONG, B. Sc.	<i>Acting Professor of Electrical Engineering</i>
MAX CARL GUENTHER LENTZ.	<i>Acting Professor of Germanic Languages.</i>
ARTHUR CRAWFORD JEWETT, B. S.	<i>Associate Professor of Mechanical Engineering</i>
CHARLES PARTRIDGE WESTON, C. E., M. A.	<i>Assistant Professor of Mechanics and Drawing</i>
GUY ANDREW THOMPSON, M. A.	<i>Assistant Professor of English</i>

ARCHER LEWIS GROVER, B. S.	<i>Instructor in Drawing</i>
THOMAS BUCK, B. S.	<i>Instructor in Mathematics</i>

* Absent on leave.

The University of Maine

HENRY MARTIN SHUTE, M. A.	<i>Instructor in Modern Languages</i>
HORACE PARLIN HAMLIN, B. S.	<i>Instructor in Civil Engineering</i>
MARSHALL BAXTER CUMMINGS, M. S.	<i>Instructor in Botany</i>
GRANT TRAIN DAVIS, B. S.,	<i>Instructor in Chemistry</i>
ARTHUR WILLIAMS COLE, B. S.	<i>Instructor in Shop Work</i>
HARLEY RICHARD WILLARD, M. A.	<i>Instructor in Mathematics</i>
RAYMOND KURTZ MORLEY, M. A.	<i>Instructor in Mathematics</i>
EVERETT WILLARD DAVEE.	<i>Instructor in Wood and Iron Work</i>
MATTHEW HUME BEDFORD, PH. D.	<i>Instructor in Chemistry</i>
HOWARD DOTY CARPENTER, M. A.	<i>Instructor in Electrical Engineering</i>
THOMAS McCHEYNE GUNN, B. S., M. A.	<i>Instructor in Mechanical Engineering</i>
WALTER EVERETT PRINCE, M. A.	<i>Instructor in English</i>
WILLIAM ROSS HAM, B. A.	<i>Instructor in Physics</i>

IRA MELLEN BEARCE, B. S.	<i>Tutor in Physics</i>
STEPHEN JOHN FARRELL.	<i>Assistant in Physical Training</i>
CLARA ESTELLE PATTERSON.	<i>Assistant Librarian</i>
RALPH LOWE SEABURY, B. S.	<i>Assistant in Chemistry</i>
FLORENCE BAILENTINE, B. S.	<i>Assistant in Biology</i>
ADELBERT WELLS SPRAGUE, B. S.	<i>Assistant in English</i>

GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry and in various branches of engineering including forestry. The number of credits required for graduation in this college varies, according to the subject chosen as a major, from twenty-five to thirty. In such technical courses it is necessary to prescribe a large proportion of the work; but some elective studies may be chosen in the junior and senior years. Under each of the courses described below is given a tabulated statement of the subjects pursued and the amount of work required. The college comprises:

- The Chemical Course
- The Chemical Engineering Course
- The Civil Engineering Course
- The Mechanical Engineering Course
- The Electrical Engineering Course
- The Mining Engineering Course
- The Forestry Course

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At graduation in any of these courses the student receives the degree of Bachelor of Science. The diploma indicates which course has been completed.

THE CHEMICAL COURSE

This course is designed for those who plan to become professional chemists and analysts, or teachers of chemistry. Attention is given to preparation for the work of the agricultural experiment stations.

Lectures and recitations are closely associated with practical work in the laboratories. The student is drilled in the use of chemical apparatus, in accurate observation, and in careful interpretation of directions.

Eleven credits are required for the completion of the major, and a total of thirty for graduation.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Term</i>		<i>Spring Term</i>	
Subject	Hours	Subject	Hours
Rm 3a, French.....	3	Rm 3b, French.....	2
Eh 3, English Composition and Rhetoric.....	3	Eh 4, English Composition and Rhetoric	3
Ms 2, Algebra.....	5	Ms 4, Trigonometry.....	3
Ch 1, General Chemistry.....	2	Ms 6a, Analytical Geom.....	2
Ch 3, Lab. Chemistry † 2.....	1	Ch 2, General Chemistry.....	3
Md 1, Drawing † 4.....	2	Ch 4, Lab. Chemistry † 2....	1
Eh 1, Public Speaking.....	1	Eh 1, Public Speaking...	1
Mt 1, Military † 5.....	2½	Mt 1, Military † 5.....	2½
<hr/>		<hr/>	
	19½		17½

SOPHOMORE YEAR

<i>Fall Term</i>		<i>Spring Term</i>	
Subject	Hours	Subject	Hours
Gm 1, German.....	5	Gm 2, German.....	5
Ps 12, General Physics.....	5	Ps 5, Lab. Physics † 4.....	2
Ch 5, Advanced Inorganic Chemistry.....	2	Ch 6, Advanced Inorganic Chemistry	3
Ch 14, Qualitative Analy- sis † 8.....	4	Ch 15, Qualitative Analy- sis † 8.....	4
Eh 2, Themes.....	1	Eh 2, Themes.....	1
Bl 1, 2, General Biology.....	3	Elective	2
<hr/>		<hr/>	
	20		17

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JUNIOR YEAR

Fall Term

Gm 3a, German.....	3
Ch 16, 18, Quant. Anal. † 12.....	6
Ch 7, Organic Chemistry.....	3
Ch 30, Biological Chemistry.....	5
Elective.....	2

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19

Spring Term

Gm 3b, German.....	3
Ch 8, Organic Chemistry.....	2
Ch 19, Volumetric Analysis & Assaying † 15.....	7½
Elective	6

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18½

SENIOR YEAR

Fall Term

Ch 12, Chemical preparations.....	} † 14.....	7
Ch 20, Agricultural Analysis.....		
Ch 21, Toxicology Urinalysis.....		
Ch 23, Organic Chemistry.....		3
Ch 24a, Industrial Chemistry.....		2
Bl 13, Geology.....		3
Elective.....		5

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20

Spring Term

Ch 24b, Industrial Chemistry	2
Ch 28, Dyeing..	1
Ch 22, Thesis...	
Ch 25, Technical Analysis.....	7½
Bl 9, Physiology.....	2
Ch 13, Chemical Equa- tions	2
Elective	5

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18½

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis and examination at the University, he receives the degree of Master of Science.

THE CHEMICAL ENGINEERING COURSE

This course is especially designed for those who intend to enter industries that require a more or less extensive knowledge of chemistry, as well as of applied mathematics and some of the engineering studies, thus fitting them for positions as chemists or managers of manufacturing plants.

The University of Maine

SOPHOMORE YEAR

<i>Fall Term</i>		<i>Spring Term</i>	
Subject	Hours	Subject	Hours
Ps 1, General Physics.....	5	Ps 2, General Physics.....	3
Ch 5, Adv. Inorganic Chemistry..	2	Ps 5, Lab. Physics † 4.....	2
Ch 14, Qualitative Analysis † 6.....	3	Ch 6, Adv. Inorganic Chemistry	3
Me. 3, Drawing † 2.....	1	Ch 15, Qualitative Analysis † 6	3
Ms 6b, Anal. Geom. (12 weeks) ..	3	Ce, Plane Surveying.....	2
Ms 7, Calculus (6 weeks).....	2	Ce 7, Field Work † 3.....	1½
Me 7, Valve Gears.....	2	Ms 8, Calculus	5
Eh 2, Themes.....	1	Eh 2, Themes.....	1
—		—	
19		20½	

JUNIOR YEAR

<i>Fall Term</i>		<i>Spring Term</i>	
Subject	Hours	Subject	Hours
Gm 2a, German.....	5	Gm 3b, German	5
Ch 16 and 18, Qualitative Analysis † 10.....	5	Ch 8, Organic Chemistry.....	2
Ch 7, Organic Chemistry.....	3	Ch 19, Volumetric Analysis and Assaying † 12.....	6
Me 5, Mechanics.....	5	Ce 10, Hydraulics.....	3
Ee 9, Dynamos.....	2	Me 4, Kinematics.....	3
—		—	
20		—	
20		—	

SENIOR YEAR

<i>Fall Term</i>		<i>Spring Term</i>	
Subject	Hours	Subject	Hours
Ch 12, Chem. preparations }		Ch 24b, Industrial Chemistry...	2
Ch 20 Agricultural Anal.. } † 12 6		Ch 25, Technical Anal }	
Ch 25, Technical Anal.... }		Ch 20, Thesis Work.. } † 14....	7
Ch 24a, Industrial Chemistry... 2		Ch 28, Dyeing.....	
Ce, Hydraulic Field Work † 3 .. 1½		Me 15, Mechanical Lab'y † 2.... 1	
Me 9, Mat. of Engineering..... 2 or Metallurgy?		Me 18, Structures † 4..... 2	
Me, Steam Engineering..... 3		or	
Me 15, Mechanical Lab'y † 4.... 2		Me 20, Heating and Ventilation (1)	
Ee 10, Dynamo-Lab'y † 2.. 1		Me 5, Shop Work † 4..... 2	
Elective..... 2		Elective	
—		—	
19½		—	
112		—	
16 or 17		—	

The University of Maine

THE CIVIL ENGINEERING COURSE

The course in Civil Engineering has been planned with the object in view of laying a firm foundation in the principles, both theoretical and practical, upon which the profession depends, so that on graduation the student may be fitted to apply himself at once to engineering work.

Especial attention is given to mathematics, mechanics, drawing, and the care and use of engineering instruments; at the same time care is taken not to omit those subjects that tend to broaden the mind and form the basis of a liberal education.

It is impressed upon the student that the scope of civil engineering is so broad that he can never expect to become expert in all its branches, and that on completion of his course he should obtain a position in that branch which seems best suited to him, such that he may begin to obtain experience and judgment, without which he can never become successful. Students are encouraged to work during the summer months in engineering lines.

The methods of instruction are recitations, lectures, original problems, work in the testing laboratories, field practice, and designing, including the making of original designs and the preparation of the necessary drawings. Effort is made to acquaint the student with the best engineering structures, and with the standard engineering literature.

The engineering building contains recitation rooms, designing rooms, testing laboratories, drawing rooms, a filing and reference room, and instrument rooms, and is well equipped.

The following studies constitute the regular four years' course. It is seen that beginning with the junior year the student is allowed to elect a certain part of his work, the election being made from any department in the University, with the consent of the head of his department.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

Fall Term

Subject	Hours
Ch 1, Chemistry.....	2
Ch 3, Lab. Chemistry † 2.....	1
Eh 1, Public Speaking.....	1
Eh 3, English Composition.....	3
Md 1, Drawing † 4.....	2

Spring Term

Subject	Hours
Ch 2, Chemistry.....	3
Ch 4, Chemistry † 2.....	1
Eh 1, Public Speaking.....	1
Eh 4, English Composition..	3
Md 2, Drawing † 4.....	2

The University of Maine

FRESHMAN YEAR—Concluded

<i>Fall Term</i>			<i>Spring Term</i>	
Subject	Hours		Subject	Hours
* Modern Language.....	3		* Modern Language.....	2
Ms 2, Algebra.....	5		Ms 4, Trigonometry	1
Mt 1, Military Drill † 5.....	2½		Ms 6a, Analytic Geometry. } 5	
		—	Mt 1, Military Drill † 5.....	2½
		19½		—
				19½

SOPHOMORE YEAR

<i>Fall Term</i>			<i>Spring Term</i>	
Subject	Hours		Subject	Hours
Ce 6, Drawing † 6.....	3		Ce 1, Surveying.....	2
Eh 2, English Composition.....	1		Ce 2, Surveying (fld. wk.) † 6...	3
Md 3, Descriptive Geometry....	2		Eh 2, English Composition. ...	1
Modern Language.....	3		Md 4, Descriptive Geometry...	2
		—	Modern Language	2
Ms 6b, Analytic Geom... }		5	Ms 8, Calculus.....	5
Ms 7, Calculus..... }		5	Ps 2, Physics.....	3
Ps 1, Physics.....	5	—	Ps 5, Physics † 4.....	2
		—		—
		19		20

JUNIOR YEAR

<i>Fall Term</i>			<i>Spring Term</i>	
Subject	Hours		Subject	Hours
Ce 3, Railroad Curves, etc.....	3		Ce 7, Drawing 9 wks. † 6 h..	1½
Ce 4, Railroad Fld. Wk. † 6...	3		Ce 9, Summer School.....	3
Ce 7, Drawing 9 wks, † 6 h....	1½		Ce 10, Hydraulics.....	3
Md 5, Mechanics.....	5		Ce 19, R. R. Engineering....	2
Elective.....	6		Md 6, Mechanics.....	5
		—	Ce 21, Structures.....	2
		—	Elective	3
		—		—
		18½		19½

* Students beginning a new language must take a five hour course the first year, which will complete the modern language requirements. In this case Eh 3, English Composition, will be taken in the sophomore year.

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SENIOR YEAR

Fall Term

Ce 11, Hydraul. Fld. Wk. † 4.....2
Ce 12, Structures.....3
Ce 14, Designing † 10.....5
Ce 20, Masonry Construction....2
Elective.....6

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18

Spring Term

Ce 13, Structures.....5
Ce 15, Designing † 15 for 10 wks.4
Thesis

Elective7

—
16

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis and examination at the University, he receives the degree of Master of Science. Three years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive the degree of Civil Engineer.

THE MECHANICAL ENGINEERING COURSE

The prescribed studies in this course are chosen with a view to give the student a fundamental engineering training such as shall enable him to enter successfully any one of the many lines of work in the field of mechanical engineering, and at the same time to form the basis of a liberal education. Therefore the required work covers a wide range of subjects in both technical and general work, as appears in the list given below.

Thorough instruction in pure and applied mathematics, physics, and mechanics is given to prepare the student to deal with the problems of his profession. The work in drawing and descriptive geometry commences in the freshman year and continues throughout the course, especial attention being given to arranging, lettering, and dimensioning the drawing so as to conform to the best practice.

The design, construction, and operation of steam boilers and engines is taught by courses in machine design, thermodynamics, fuels, valve gears, steam boiler design and steam engine design. Tests of steam boilers, steam and gas engines, etc., are made and studied during the senior year. Courses in surveying, hydraulics, and hydraulic machinery are open to the student. The production of materials used in construction is studied and their properties verified by tests in the mechanical laboratories. A working knowledge of electrical machines is given by lectures in the class-room and practice in the laboratory. During the senior year an option in Marine Engineering is offered, giving an oppor-

The University of Maine

tunity for the student to specialize in the steam engineering work involved in ship propulsion.

This class-room work is supplemented by extensive courses in wood-work and pattern making, forging, machine tool work and foundry practice.

Detailed descriptions of the subjects in the following list of required work may be found under "Courses of Instruction."

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Term</i>			<i>Spring Term</i>	
Subject	Hours		Subject	Hours
Ch 1, Chemistry.....	2		Ch 2, Chemistry.....	3
Ch 3, Lab. Chemistry † 2.....	1		Ch 4, Lab. Chemistry † 2.....	1
Eh 1, Public Speaking.....	1		Eh 1, Public Speaking.....	1
Eh 3, English Composition.....	3		Eh 4, English Composition..	3
* Modern Language.....	3		* Modern Language.....	2
Md 1, Drawing † 4.....	2		Md 2, Drawing † 4.....	2
Ms 2, Algebra.....	5		Ms 4, Trigonometry.....	3
Mt 1, Military † 5.....	2½		Ms 6a, Analytic Geometry...	2
			Mt 1, Military † 5.....	2½
	19½			19½

SOPHOMORE YEAR

<i>Fall Term</i>			<i>Spring Term</i>	
Subject	Hours		Subject	Hours
Eh 2, Themes.....	1		Md 4, Descriptive Geometry...	2
Md 3, Descriptive Geometry.....	2		* Modern Language.....	2
* Modern Language.....	3		Me 2, Forge Work † 4.....	2
Me 1, Wood Work † 4.....	2		Me 4, Kinematics † 6.....	3
Me 3, Drawing † 2.....	1		Ms 8, Calculus.....	5
Ms 6b, Analytic Geometry.....	3		Ps 2, Physics.....	3
Ms 7, Calculus.....	2		Ps 5, Lab. Physics † 4.....	2
Ps 1, Physics.....	5		Eh 2, Themes	1
	19			20

* Students beginning a new language must take a five-hour course during the first year. This will complete the modern language requirement. In this case Eh 3, English Composition, will be taken in the sophomore year.

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JUNIOR YEAR

Fall Term

Ee 9, Dynamos.....	3
Md 5, Mechanics.....	5
Me 5, Machine Work	{
Me 6, Foundry Practice	8
Me 7, Valve Gears	4
Ps 9, Lab. Physics	{
Elective.....	2
	3

19

Spring Term

Md 6, Mechanics.....	5
Me 5, Machine Work	{
Me 6, Foundry Practice	8
Me 8a, Machine Design.....	3
Me 8b, Designing	{
Me 15, Mechan. Lab.	2
Elective	1

19

SENIOR YEAR

Fall Term

Me 9, Materials of Engineering..	2
Me 10, Fuels.....	2
Me 11, Steam Engineering.....	3
Me 12, Steam Boiler Design	{
Me 15, Mechanical Laboratory	6
† 4	3
Elective.....	5

17

Spring Term

Me 15, Mechanical Laboratory	
† 4	1
(First nine weeks)	
Me 17, Steam Engine Design	
† 12	3
(First nine weeks)	
Me 22, Thesis.....	3
Me 16, Steam Engineering.....	2
Elective	8

17

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis and examination at the University, he receives the degree of Master of Science. Three years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive the degree of Mechanical Engineer.

THE ELECTRICAL ENGINEERING COURSE

This course is intended to provide a thorough preparation in the scientific principles involved in the practice of electrical engineering; to explain and illustrate the application of these principles to the design, construction, installation and running of apparatus with which the electrical engineer has to deal, and to give practice and experience in the care and running of the same. In addition to this purely electrical work the student takes up carpentry, forge work, machine work, mechanical

The University of Maine

drawing, mathematics, physics, mechanics, steam engineering and other subjects allied to engineering work. The general courses, required or elective, include English language, logic, psychology, history, political economy, and constitutional law.

The equipment for laboratory work in electrical engineering is ample and includes most of the standard forms of instruments and machines.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Term</i>		<i>Spring Term</i>	
Subject	Hours	Subject	Hours
Ch 1, Chemistry.....	2	Ch 2, Chemistry.....	3
Ch 3, Lab. Chemistry † 2.....	1	Ch 4, Lab. Chemistry † 2.....	1
Eh 1, Public Speaking.....	1	Eh 1, Public Speaking.....	1
Eh 3, English Composition.....	3	Eh 4, English Composition.....	3
Md 1, Drawing † 4.....	2	Md 2, Drawing † 4.....	2
* Modern Language.....	3	* Modern Language.....	2
Ms 2, Algebra.....	5	Ms 4, Trigonometry.....	3
Mt 1, Military † 5.....	2½	Ms 6a, Analytic Geometry.....	2
		Mt 1, Military † 5.....	2½
	19½		19½

SOPHOMORE YEAR

Eh 2, Themes.....	1	Eh 2, Themes.....	1
Md 3, Descriptive Geometry.....	2	Md 4, Descriptive Geometry.....	2
Me 1, Wood Work † 4.....	2	Me 2, Forge Work † 4.....	2
Me 3, Drawing † 2.....	1	Me 4, Kinematics † 6.....	3
Modern Language.....	3	Modern Language.....	2
Ms 6b, Analytic Geometry.....	3	Ms 8, Calculus.....	5
Ms 7, Calculus.....	2	Ps 2, Physics.....	3
Ps 1, Physics.....	5	Ps 5, Lab. Physics † 4.....	2
	19		20

* Students beginning a new language must take a five-hour course the first year. This will complete the Modern Language requirement. In this case Eh 3, English Composition, will be taken in the sophomore year.

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JUNIOR YEAR

Ee 1, Electricity and Magnetism.....	2	Ee 2, Electricity and Magnetism	3
Md 5, Mechanics.....	5	Ee 12, Lab. Work, D. C. † 2....	1
Me 5, Machine Work † 4.....	2	Md 6, Mechanics.....	5
Me 7, Valve Gears † 4.....	2	Me 5, Machine Work † 4.....	2
Ps 11, Electrical Meas. † 6.....	3	Me 8a, Machine Design ‡.....	3
Elective.....	5	Elective	5
	19		19

SENIOR YEAR

Ee 3, Electrical Machinery.....	3	Ee 4, Alt. Current Machinery, 5 hrs. 1st 9 wks.....	2½
Ee 5, Design D. C. Machine † 4..	2	Ee 6, Design A. C. Machine	
Ee 7, Lab. Work, D. C. and A. C. † 4.....	2	† 5 hrs. 1st 9 wks.....	1¼
Ee 13, Alternating Currents.....	3	Ee 8, Laboratory Work A. C..	5¾
Me 11, Steam Engineering.....	3	Ee 14, Electrical Engineering, 3 hrs. 2nd 9 wks.....	1½
Elective.....	5	Elective	5
	18		16

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed graduate work in residence, or two years' in absence, including the presentation of a satisfactory thesis and examination at the University, he receives the degree of Master of Science. Three years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive the degree of Electrical Engineer.

THE MINING ENGINEERING COURSE

In the newly established department of mining engineering, the course of study for the first two years is identical with that in civil engineering, except that, during the second year, class and laboratory work in chemistry takes the place of the courses in mechanical drawing, descriptive geometry and surveying. It is expected that more specific and advanced instruction in this department will be provided at an early date.

‡ Me 8a may be replaced by Ce 1 and Ce 2, Plain Surveying and Field Work, 2 hours and † 4 hours respectively.

The University of Maine

THE FORESTRY COURSE

A complete undergraduate course in forestry is arranged, which may serve as the basis not only of practical work in forestry, but also of a liberal education. A knowledge of the principles of forestry in its different branches is given to the student, and some practice work is done in the forest. For students of agriculture this course offers work in silviculture which will give a training in the management of the farmer's woodlot.

The instruction in this department consists of lectures, recitations, laboratory and field work. The woodland belonging to the University, together with adjacent land covered by a young forest, furnishes a field for the study of many forest problems.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Term</i>		<i>Spring Term</i>	
Subject	Hours	Subject	Hours
Bl 1, General Biology.....	2	Bl 21, General Botany.....	1
Bl 2, Lab. Biology † 2.....	1	Bl 22, Lab. Botany † 4.....	2
Eh 1, Public Speaking.....	1	Eh 1, Public Speaking.....	1
Eh 3, English Composition.....	3	Eh 4, English Composition.....	3
Md 1, Drawing † 4.....	2	Md 2, Mechanical Drawing † 4	2
Modern Language.....	3	Ms 4, Trigonometry	
Ms 2, Algebra.....	5	Ms 6a, Anal. Geometry.....	5
Mt 1, Military † 5.....	2½	Modern Language.....	2
<hr/>		Mt 1, Military † 5.....	
	19½		2½
			18½

SOPHOMORE YEAR

Bl 23, General Botany.....	2	Bl 27, Plant Physiology.....	1
Ch 1, General Chemistry.....	2	Bl 28, Lab. Physiology † 2.....	1
Ch 3, Lab. Chemistry † 2.....	1	Ch 1, Plane Surveying.....	2
Eh 2, English Comp.....	1	Ch 2, Plane Surveying Field Work † 6.....	3
Fy 2, Forest Botany.....	2	Ch 2, Chemistry.....	3
Fy 4, Lab. Forest Botany † 4.....	2	Ch 4, Lab. Chemistry † 2.....	1
Modern Language.....	3	Eh 2, English Comp.....	1
Ps 1, Physics.....	5	Fy 3, Forest Botany.....	2
<hr/>		Fy 5, Lab. Botany.....	
		Modern Language.....	
			3

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JUNIOR AND SENIOR YEARS

Fy 6 and 7, Silviculture.

Fy 8 and 9, Silviculture.

Fy 10 and 11, Forest Measurements.

Fy 12, Lumbering and Written Report.

Fy 13, Forest Management.

Fy 14, Thesis in Forest Management.

Electives as directed by the professor (sufficient to make a total of twenty-five credits at the end of the course).

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed graduate work in residence, or two years' in absence, including the presentation of a satisfactory thesis and examination at the University, he receives the degree of Master of Science.

The University of Maine

COLLEGE OF PHARMACY

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.

President of the University

ALFRED BELLAMY AUBERT, M. S. *Professor of Chemistry*

LUCIUS HERBERT MERRILL, B. S.

Professor of Biological Chemistry

JAMES NORRIS HART, C. E., M. S.

Professor of Mathematics and Astronomy

FREMONT LINCOLN RUSSELL, B. S., V. S.

Professor of Biology

HORACE MELVYN ESTABROOKE, M. A. *Professor of English*

JAMES STACY STEVENS, M. S.

Professor of Physics

GILMAN ARTHUR DREW, Ph. D.

Professor of Biology

WILBUR FISK JACKMAN, B. S., Ph. C.

Professor of Pharmacy

RALPH KNEELAND JONES, B. S.

Librarian

*ORLANDO FAULKLAND LEWIS, Ph. D.

Professor of Germanic Languages

CHARLES J. SYMMONDS,

Professor of Military Science and Tactics

JACOB BERNARD SEGALL, Ph. D.

Professor of Romance Languages

MAX CARL GUENTHER LENTZ

Acting Professor of Germanic Languages

GUY ANDREW THOMPSON, M. A. *Assistant Professor of English*

THOMAS BUCK, B. S.

Instructor in Mathematics

HENRY MARTIN SHUTE, M. A. *Instructor in Modern Languages*

MARSHALL BAXTER CUMMINGS, M. S. *Instructor in Biology*

GRANT TRAIN DAVIS, B. A. *Instructor in Chemistry*

HARLEY RICHARD WILLARD, M. A. *Instructor in Mathematics*

RAYMOND KURTZ MORLEY, M. A. *Instructor in Mathematics*

MATTHEW HUME BEDFORD, Ph. D. *Instructor in Chemistry*

* Absent on leave.

The University of Maine

WALTER EVERETT PRINCE, M. A. *Instructor in English*
STEPHEN JOHN FARRELL *Instructor in Physical Training*

CLARA ESTELLE PATTERSON
RALPH LOWE SEABURY, B. S.
FLORENCE BAILENTINE, B. S.
ADELBERT WELLS SPRAGUE, B. S.

Assistant Librarian
Assistant in Chemistry
Assistant in Biology
Assistant in English

GENERAL INFORMATION

The College of Pharmacy comprises:

- The Pharmacy Course
- The Short Course in Pharmacy

THE PHARMACY COURSE

This course is offered in response to a demand for a thorough training, both general and technical, for those who are to become pharmacists. It aims to combine a broad general culture and a thorough preparation along its special lines, with the design of affording both the intellectual development necessary for the well rounded professional or business man, and the necessary technical training. To this end, it includes the same instruction in modern languages, civics, and the sciences, as is offered in other college courses. Thirty credits are required for graduation.

Those who intend to fit themselves for pharmaceutical work are urged to consider carefully the superior advantages of this course. The growing importance of the biological, sanitary, and medical sciences, and the pharmacist's relation to them, makes it increasingly necessary to his success that he be not only a well trained man in the technical branches, but an educated man in the broadest sense.

Instruction in pharmaceutical studies is given by means of lectures, recitations, and tests, supplemented by work in the laboratories of chemistry and pharmacy. It embraces qualitative, quantitative, and volumetric analysis, toxicology, bacteriology, prescriptions, the preparation of pharmaceutical compounds, and original investigations.

The library contains valuable reference literature in chemistry and pharmacy, and the best chemical and pharmaceutical journals.

The University of Maine

REQUIREMENTS FOR GRADUATION

Fall Term

Subject	Hours
Rm 3a, French *	3
Eh 1, Pub. Speaking	1
Eh 3, Eng. Composition	3
Ch 1, Gen. Chemistry	2
Ch 3, Lab. Chem. † 2	1
Ms 2, Algebra	5
Military † 5	2½
	—
	17½

Spring Term

Subject	Hours
Rm 3b, French	2
Eh 1, Pub. Speaking	1
Eh 4, Eng. Composition	3
Ch 2, General Chemistry	3
Ch 4, Lab. Chem. † 2	1
Ms 1, Solid Geom.	5
Ms 4, Trig. (10 w)	5
Military † 5	2½
	—
	17½

SOPHOMORE YEAR

Rm 4a, French	3
Ps 12, Gen. Physics	5
Eh 2, Eng. Composition	1
Ch 5, Inorg. Chemistry	2
Ch 14, Qual. Anal. † 8	4
Bl 1, Gen. Biol.	2
Bl 2, Lab. Biol. † 2	1
	—

18

Rm 4b, French	3
Ps 5, Lab. Physics † 4	2
Eh 2, Eng. Composition	1
Ch 6, Inorg. Chemistry	3
Ch 15, Qual. Anal. † 8	4
Bl 9, Physiology	2
Bl 21, Gen. Botany	1
Bl 22, Lab. Botany † 4	2
Elective	2
	—

20

JUNIOR YEAR

Ch 7, Org. Chemistry	3
Ch 16, Quant. Anal. † 8	4
Ch 30, Biol. Chem.	5
Bl 25, Plant Hist.	1
Bl 26, Lab. Plant Hist. † 4	2
Pm 5, Inorg. Pharmacog.	2
Elective	3
	—

20

Ch 8, Org. Chemistry	2
Ch 19, Vol. Anal. † 12	6
Ch 21, Tox. etc. † 2	1
Ch 31, Chem. Eq.	2
Bl 17, Bacteriol. (9w) † 10	2½
Pm 6, Org. Pharmacog.	4
Elective	2
	—

19½

* Students beginning German must take five hours per week for a year, which will complete the required work in modern language.

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SENIOR YEAR

Pm 2, Pharmacy.....	5	Pm 4, Pharmacopeia.....	5
Pm 3, Lab. Pharm. † 12.....	6	Pm 9, Pharm. Reading † 5.....	2½
Pm 7, Mater. Med.....	3	Pm 10, Lab. Pharm. † 10.....	5
Elective	4	Pm 11, Prescriptions.....	3
		Elective4
	18		19½

From courses in History, Philosophy and Civics a total of at least five hours must be chosen.

The number of hours required and elected need not exceed 150, or 30 credits.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis, and examination at the University, he receives the degree of Master of Science.

THE SHORT COURSE IN PHARMACY

This course, of two years, is designed for those who, for lack of time or for other reasons, are unable to take the course of four years. The more general educational studies of the full course are omitted, but as broad a range of subjects is offered as can be undertaken without sacrifice of thoroughness in the technical work. The course corresponds, in general, to the usual full course of pharmacy colleges. The work required of the student will occupy his whole time during the college year of nine months, and will usually exclude work in drug stores during term time. The brevity of this course does not warrant extending to other than advanced students the privilege of electives.

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REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Term</i>		<i>Spring Term</i>	
Subject	Hours	Subject	Hours
Ch 1, Gen. Chemistry.....	2	Ch 2, Gen. Chemistry.....	3
Ch 14, Qual. Anal. † 16.....	8	Ch 15, Qual. Anal. } (9 w.)	} 10..5
Pm 1, Pharm. Chem.....	5	Ch 19, Vol. Anal. } (9 w.)	} 10..5
Pm 5, Inorg. Pharmacog.....	2	Ch 31, Chem. Eq.....	2
Military † 5.....	2½	Bl 21, Gen. Botany.....	1
		Bl 22, Lab. Botany † 4.....	2
		Pm 6, Org. Pharmacog.....	4
		Military † 5.....	2½
	19½		19½

SOPHOMORE YEAR

Ch 7, Org. Chem.....	3	Ch 8, Org. Chem.....	2
Pm 2, Pharmacy.....	5	Ch 21, Tox., etc., † 2.....	1
Pm 3, Lab. Pharmacy † 12.....	6	Pm 4, Pharmacy.....	5
Pm 7, Mat. Medica.....	3	Pm 9, Pharm. Read. † 3.....	1½
Bl 25, Plant Hist.....	1	Pm 10, Lab. Pharm. † 10.....	5
Bl 26, Lab. Plant Hist. † 4.....	2	Pm 11, Prescriptions.....	3
		Bl 17, Bacteriol. (9 w.).....	2½
	20		20

Students who complete this course in a satisfactory manner receive the degree of Pharmaceutical Chemist.

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COLLEGE OF LAW

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.	<i>President of the University</i>
WILLIAM EMANUEL WALZ, M. A., LL. B.	<i>Dean, and Professor of Law</i>
ALLEN ELLINGTON ROGERS, M. A.	<i>Professor of Constitutional Law</i>
EDGAR MYRICK SIMPSON, B. A.	<i>Assistant Professor of Real Property and Corporations</i>
BERTRAM LEIGH FLETCHER, LL. B.	<i>Instructor in Agency and Negotiable Paper</i>
GEORGE HENRY WORSTER, LL. B.	<i>Instructor in Insurance and Sales</i>
BARTLETT BROOKS, B. A., LL. B.	<i>Instructor in Contracts</i>
FOREST JOHN MARTIN, LL. B.	
	<i>Resident Lecturer on Common Law Pleading and Maine Practice</i>
HUGO CLARK, C. E.	<i>Resident Lecturer on Equity Pleading and Practice</i>
CHARLES HAMLIN, M. A.	<i>Lecturer on Bankruptcy and Federal Procedure</i>
LUCILIUS ALONSO EMERY, LL. D.	<i>Lecturer on Roman Law and Probate Law</i>
ANDREW PETERS WISWELL, LL. D.	<i>Lecturer on Evidence</i>
LOUIS CARVER SOUTHDARD, LL. D.	<i>Lecturer on Medico-Legal Relations</i>
RALPH KNEELAND JONES, B. S.	<i>Librarian</i>

GENERAL INFORMATION

The College of Law was opened to students in 1898. It occupies rooms in the Exchange Building, at the corner of State and Exchange streets, Bangor. In this city are held annually one term of the U. S. District Court, five terms of the Maine Supreme Judicial Court, one term of the Law Court, and daily sessions of the Municipal Court. The law library contains about 3,000 volumes, including the reports of the Supreme Court of the United States, Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Ohio, and the Court of Appeals of New

The University of Maine

York, the New York Common Law and Chancery Reports, the American Decisions, American Reports, American State Reports, the Complete Reporter System, the Lawyers' Reports Annotated, all the Law Encyclopædias, and a considerable number of text-books.

ADMISSION

Graduates of any college or satisfactory preparatory school are admitted to the college as candidates for the degree of Bachelor of Laws, without examination. Other applicants must give satisfactory evidence of the necessary educational qualifications for the pursuit of the required course of study. These will be fixed in each case according to the rules of the Association of American Law Schools, of which association this school is a member. Attention is called to a change made in these rules by the Association of American Law Schools at its meeting at Narragansett Pier, R. I., in August, 1905. The following resolution was then passed:

"Section one of Article VI of the Articles of Association shall be amended so that it will read as follows:

"I. It shall require of all candidates for its degree at the time of their admission to the school, the completion of a four years' high school course, or such a course of preparation as would be accepted for admission to the state university, or to the principal colleges and universities in the state where the law school is located; provided, that this requirement shall not take effect until September, 1907."

Special students, not candidates for a degree, will be admitted without examination, and may pursue any studies for which they are prepared.

Students from other schools, which are members of the Association of American Law Schools, are admitted to classes in this institution corresponding to classes in the schools from which they come, upon the production of a certificate showing the satisfactory completion of the prior work in such schools.

Students from law offices otherwise qualified are admitted to advanced standing upon passing a satisfactory examination upon the earlier subjects of the course.

Members of the bar of any state may be admitted to the senior class, without examination, as candidates for the degree of Bachelor of Laws, while graduate students may take one of the two courses leading to the degree of Master of Laws.

METHODS OF INSTRUCTION

The college is not committed exclusively to any one method of instruction, and recognizes the great value of lectures by able men, and the

The University of Maine

profit to be found in the use of standard text-books; but the greatest stress is placed upon the study of selected cases, and most of the work is carried on in this way. It is believed that through the case the student can best come at the controlling principles of the law, and that in no other way can he get so vital a comprehension of them. "Through the case to the principle," may, perhaps, adequately indicate the standpoint of the school in the matter of method.

Particular stress is placed upon the Practice Court, which is held once a week as a part of the work of the college, and in which every student is required to appear regularly. The questions of law are in all instances made to arise from the pleadings prepared by the students, and briefs, summarizing the points involved and the authorities cited, are submitted to the presiding judge.

The aim and spirit of the college are eminently practical, the purpose being to equip men for the everyday duties of the practicing attorney.

COURSE OF STUDY

The course of study covers three years, in accordance with the requirements for admission to the bar in the State of Maine. The college year consists of thirty-two weeks, and is divided into the fall, winter, and spring terms, of eleven, ten, and eleven weeks respectively.

EXPENSES

The annual tuition fee is \$70, \$23.33 at the beginning of each term, payable in advance. Of this sum \$10 is a library charge. The graduation fee is \$10. There are no other charges.

Board and furnished rooms, with light and heat, may be obtained in the most convenient locations, at a price ranging from \$3 to \$7 a week. It is believed that expenses in this department, as well as in other departments of the University, are lower than in any other New England college.

DEGREES

At the completion of the three years' course, the degree of Bachelor of Laws is conferred. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis and examination at the University, the degree of Master of Laws is granted.

HONORS

Two members of the senior class are each year elected to membership in Phi Kappa Phi; and two members have places on the commencement program.

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COURSES OF INSTRUCTION

Lw 1. AGENCY.—Text-book, Huffcut's Cases on Agency. *Three hours a week.* Spring term. MR. FLETCHER.

Lw 2. BANKRUPTCY.—Lectures. *Two hours a week.* Winter term. GENERAL HAMLIN.

Lw 3. CARRIERS.—Text-book, McClain's Cases on Carriers. *One hour a week.* Fall term. PROFESSOR SIMPSON.

Lw 4. CARRIERS.—A continuation of course 3. *Two hours a week.* Winter term. PROFESSOR SIMPSON.

Lw 5. COMMON LAW PLEADING.—Lectures. *Two hours a week.* Winter term. MR. MARTIN.

Lw 6. COMMON LAW PLEADING.—A continuation of course 5. *One hour a week.* Spring term. MR. MARTIN.

Lw 7. CONFLICT OF LAWS.—Dwyer's Cases. *Three hours a week.* Spring term. PROFESSOR WALZ.

Lw 8. CONSTITUTIONAL LAW.—Boyd's Cases. *Two hours a week.* Winter term. PROFESSOR ROGERS.

Lw 9. CONTRACTS.—Keener's Cases on Contracts. *Four hours a week.* Fall term. MR. BROOKS.

Lw 10. CONTRACTS.—A continuation of course 9. *Three hours a week.* Winter term. MR. BROOKS.

Lw 11. CONTRACTS.—A continuation of course 10. *Two hours a week.* Spring term. MR. BROOKS.

Lw 12. CRIMINAL LAW.—Reale's Cases on Criminal Law. *Two hours a week.* Winter term. PROFESSOR SIMPSON.

Lw 13. CRIMINAL LAW.—A continuation of course 12. *Three hours a week.* Spring term. PROFESSOR SIMPSON.

Lw 14. DAMAGES.—Beale's Cases on Damages. *Three hours a week.* Winter term. MR. WORSTER.

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Lw 15. DOMESTIC RELATIONS.—Smith's Cases on Persons. *Three hours a week.* Fall term. PROFESSOR SIMPSON.

Lw 16. EQUITY JURISPRUDENCE.—Bispham on Equity Jurisprudence and Shepard's Cases on Equity. *Four hours a week.* Fall term. PROFESSOR WALZ.

Lw 17. EQUITY JURISPRUDENCE.—A continuation of course 16. *Three hours a week.* Winter term. PROFESSOR WALZ.

Lw 18. EQUITY PLEADING.—Lectures. *Two hours a week.* Spring term. MR. CLARK.

Lw 19. EVIDENCE.—Thayer's Cases. *Four hours a week.* Fall term. PROFESSOR SIMPSON.

Lw 20. EVIDENCE.—A continuation of course 19. *Three hours a week.* Winter term. PROFESSOR SIMPSON.

Lw 21. EVIDENCE.—Lectures. *Number of hours not fixed.* Winter term. MR. CHIEF JUSTICE WISWELL.

Lw 22. EXECUTORS AND ADMINISTRATORS.—Lectures. *One hour a week.* Spring term. PROFESSOR SIMPSON.

Lw 23. FEDERAL COURTS.—Lectures. *One hour a week.* Spring term. PROFESSOR WALZ.

Lw 24. GENERAL REVIEW.—Gardner's Review. *One hour a week.* Fall term. PROFESSOR WALZ.

Lw 25. GENERAL REVIEW.—Gardner's Review. *One hour a week.* Winter term. PROFESSOR WALZ.

Lw 26. GENERAL REVIEW.—Gardner's Review. *One hour a week.* Spring term. PROFESSOR WALZ.

Lw 27. HISTORY OF LAW.—Lectures. *One hour a week.* Fall term. PROFESSOR ROGERS.

Lw 28. INSURANCE.—Woodruff's Cases. *Three hours a week.* Spring term. MR. WORSTER.

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Lw 29. INTERNATIONAL LAW.—Lectures. *One hour a week.* Fall term. PROFESSOR ROGERS.

Lw 30. MAINE PRACTICE.—Lectures. *One hour a week.* Spring term. MR. MARTIN.

Lw 31. MEDICO-LEGAL RELATIONS.—Lectures. *About six hours.* Spring term. MR. SOUTHARD.

Lw 32. MUNICIPAL CORPORATIONS.—Smith's Cases. *Three hours a week.* Winter term. PROFESSOR WALZ.

Lw 33. NEGOTIABLE PAPER.—Huffcut's Cases. *Two hours a week.* Winter term. MR. FLETCHER.

Lw 34. NEGOTIABLE PAPER.—A continuation of course 33. *Three hours a week.* Spring term. MR. FLETCHER.

Lw 35. PARTNERSHIP.—Ames's Cases. *Four hours a week.* Spring term. PROFESSOR WALZ.

Lw 36. PRIVATE CORPORATIONS.—Smith's Cases. *Four hours a week.* Fall term. PROFESSOR SIMPSON.

Lw 37. PRIVATE CORPORATIONS.—A continuation of course 36. *Three hours a week.* Winter term. PROFESSOR SIMPSON.

Lw 38. PROBATE LAW AND PRACTICE.—Lectures. *About ten hours.* Spring term. MR. JUSTICE EMERY.

Lw 39. REAL PROPERTY.—Tiedeman on Real Property. *Four hours a week.* Fall term. PROFESSOR SIMPSON.

Lw 40. REAL PROPERTY.—A continuation of course 39. *Three hours a week.* Winter term. PROFESSOR SIMPSON.

Lw 41. REAL PROPERTY.—Finch's Cases on the Law of Property in Land. *Four hours a week.* Spring term. PROFESSOR SIMPSON.

Lw 42. ROMAN LAW.—Lectures. *About ten hours.* Spring term. MR. JUSTICE EMERY.

Lw 43. SALES.—Burdick's Cases. *Two hours a week.* Fall term. MR. WORSTER.

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Lw 44. SALES.—A continuation of course 43. *Two hours a week.* Winter term. MR. WORSTER.

Lw 45. SURETYSHIP.—Ames's Cases. *Two hours a week.* Fall term. MR. WORSTER.

Lw 46. SURETYSHIP.—A continuation of course 45. *Two hours a week.* Winter term. MR. WORSTER.

Lw 47. TORTS.—Ames and Smith's Cases. *Four hours a week.* Fall term. PROFESSOR WALZ.

Lw 48. TORTS.—A continuation of course 47. *Three hours a week.* Winter term. PROFESSOR WALZ.

Lw 49. TORTS.—A continuation of course 48. *Two hours a week.* Spring term. PROFESSOR WALZ.

Lw 50. WILLS.—Chaplin's Cases. *Three hours a week.* Spring term. MR. WORSTER.

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THE MAINE AGRICULTURAL EXPERIMENT STATION

FACULTY OF INVESTIGATION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.

President of the University

CHARLES DAYTON WOODS, Sc. D.	<i>Director</i>
JAMES MONROE BARTLETT, M. S.	<i>Chemistry</i>
LUCIUS HERBERT MERRILL, B. S.	<i>Chemistry</i>
FREMONT LINCOLN RUSSELL, B. S., V. S.	<i>Veterinary Science</i>
WELTON MARKS MUNSON, PH. D.	<i>Horticulture</i>
GILBERT MOTTIER GOWELL, M. S.	<i>Poultry Investigations</i>
EDITH MARION PATCH, B. S.	<i>Entomology</i>
HERMAN HERBERT HANSON, B. S.	<i>Chemistry</i>
LEWIS IRVING NURENBERG, B. S.	<i>Chemistry</i>
BESSIE GERALDINE LEEDS, B. A.	<i>Microscopy and Photography</i>

ESTABLISHMENT OF THE STATION

The Maine Fertilizer Control and Agricultural Experiment Station, established by Act of the Legislature approved March 3, 1885, began its work in April of that year in quarters furnished by the College. After this Station had existed for two years, Congress passed what is known as the Hatch Act, establishing agricultural experiment stations in every state. This grant was accepted by the Maine Legislature by an Act approved March 16, 1887, which established the Maine Agricultural Experiment Station as a department of the University. The reorganization was effected in June, 1887, but work was not begun until February 16, 1888.

GOVERNMENT OF THE STATION

By authority of the Trustees the affairs of the Station are considered by the Station Council, (see page 6) composed of the President of the University, three members of the Board of Trustees, the Director of the Station, the heads of the various departments of the Station, the

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Commissioner of Agriculture, and one member each from the State Pomological Society, the State Grange, and the State Dairyman's Association. The recommendations of the Council are referred to the Trustees for final action. The Director is the executive officer of the Station, and the other members of the staff have charge of the lines of work that naturally come under their departments.

INCOME

The annual income of the Station is about \$23,000; \$15,000 of which comes from the Hatch fund, \$2,000 from State appropriations for food, seed, and feeding stuff inspections, about \$3,500 from fertilizer inspection fees, \$1,000 from the United States Department of Agriculture for co-operative experiments with poultry, and about \$1,500 from miscellaneous sources.

THE OBJECT

The purpose of the experiment stations is defined in the Act of Congress establishing them as follows:

"It shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural and artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states or territories."

Any resident of Maine concerned in agriculture has the right to apply to the Station for any assistance that comes within its province.

EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall, described on page 20. The Station also occupies space in the horticultural building and barns of the University and enjoys all needed facilities of the College of Agriculture. The Station is well equipped in laboratories and apparatus, particularly in the lines of chemical, ento-

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mological, horticultural, and poultry industry investigations. Its poultry plant is probably the most complete of that of any experiment station in the country. It has extensive collections illustrating the botany and entomology of the State. It has a library of about 2,500 volumes, chiefly agricultural and biological journals, and publications of the various experiment stations.

INVESTIGATIONS

The Station continues to restrict its work to a few important lines, believing that it is better for the agriculture of the State to study thoroughly a few problems than to spread over the whole field of agricultural science. It has continued to improve its facilities and segregate its work in such a way as to make it an effective agency for research in agriculture. Prominent among the lines of investigation are studies upon the food of man and animals, the diseases of plants and animals, orchard, garden and field experiments, poultry investigations, and entomological research. Some of these are in co-operation with bureaus of the United States Department of Agriculture. Field experiments with crops and orchards are carried on, in the parts of the State where the crop in question is a leading industry, on private land in co-operation with the owners.

INSPECTIONS

The inspection of food, the inspection of fertilizers, the inspection of concentrated commercial feeding stuffs, the inspection of agricultural seeds, and the testing of the graduated glassware used in creameries, are entrusted to the Station through its director, who is responsible for the execution of the public laws relating to these matters. The cost of the fertilizer inspection is borne by a brand tax, that of the feeding stuff, food and seed inspections by a State appropriation, and that of chemical glassware by a charge for calibration.

DISSEMINATION OF INFORMATION

The Station publishes the account of its work in bulletin form. The bulletins for a year form a volume of about 225 pages and make up the annual report. Bulletins which contain matter of immediate value to practical agriculture are sent free of cost to the entire mailing list of the Station. On request, the name of any resident of Maine will be placed on the mailing list.

Newspaper bulletins on special topics are published from time to time as occasion demands. These are very generally printed by the press of the State and the agricultural papers of the country.

The Station has a large correspondence, chiefly with practical farmers in the State. Careful attention is given to all inquiries and it is believed that in this way the Station is increasingly helpful to the farmer.

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COMMENCEMENT

The Commencement exercises of 1905 were as follows:

Sunday, June 11: Baccalaureate Address, by Professor Edward Howard Griggs.

Monday, June 12: University Convocation, including reports of departments and student enterprises, and the awarding of prizes; Class Day Exercises; President's Reception.

Tuesday, June 13: Phi Kappa Phi Initiation; Meeting of the Alumni Association; Reception by the various fraternities; Alumni Luncheon; Alumnae Luncheon; Phi Kappa Phi Address, by President Carroll D. Wright, LL. D.

Wednesday, June 14: Commencement Exercises; Commencement Dinner; Commencement Concert.

DEGREES CONFERRED

(The major subjects are stated in parenthesis.)

COLLEGE OF AGRICULTURE

William Jewett Ricker, B. S. (Agriculture).....Turner

COLLEGE OF ARTS AND SCIENCES

Gould Roydon Anthony, B. A. (Philosophy).....	Lincoln
Florence Balentine, B. A. (Biology).....	Orono
Archer Fuller Breed, B. S. (Mathematics).....	Lynn, Mass.
Ernest LeRoy Dinsmore, B. A. (Philosophy).....	Whiting
Henry Kingman Dow, B. A. (German).....	Old Town
Robert Rutherford Drummond, B. S. (German).....	Bangor
Raymond Arthur Fowles, B. A. (Philosophy).....	Greenville
Brydone Ellsworth Harding, B. S. (Chemistry).....	Danforth
Bartle Trott Harvey, B. S. (Biology).....	Orono
Edward Knight Hilliard, B. S. (Biology).....	Old Town
James Harvey McClure, B. A. (German).....	Bangor
Mabel Frances Powell, B. A. (German).....	Orono
Adelbert Wells Sprague, B. S. (Civics).....	Bangor
Marion Barry Wentworth, B. A. (Greek).....	Kennebunk Beach

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COLLEGE OF PHARMACY

Frank Linwood Bailey, Ph. C.....	South Harpswell
William Bromley Hurd, Ph. C.....	North Berwick
Edgar Warren Reemie, Ph. C.....	East Machias

COLLEGE OF TECHNOLOGY

Curtis Eames Abbott, B. S. in Civil Engineering.....	Locke's Mills
Carl Howard Alden, B. S. in Mechanical Engineering.....	Gorham
Ralph Henry Alton, B. S. in Electrical Engineering.....	Lynn, Mass.
Bertram Eugene Ames, B. S. in Civil Engineering.....	Lynn, Mass.
George Otty Armstrong, B. S. in Electrical Engineering..	St. John, N. B.
Herbert Walter Bachelder, B. S. in Electrical Engineering,	East Winthrop

Charles Lester Bailey, B. S. in Civil Engineering.....	Auburn
Harry Orlando Beale, B. S. in Civil Engineering.....	North Anson
Harry George Blaisdell, B. S. in Civil Engineering.....	Bangor
Clayton Wass Bowles, B. S. in Civil Engineering.....	Columbia Falls
Archer Norwood Brown, B. S. in Electrical Engineering....	Stillwater
Ernest Carroll Brown, B. S. in Mechanical Engineering.....	Gorham
George Wilmot Carle, B. S. in Civil Engineering.....	Portland
Byron Herbert Chatto, B. S. in Electrical Engineering.....	East Surry
Arthur Winfield Collins, B. S. in Civil Engineering.....	Caribou
Ernest Linwood Cotton, B. S. in Chemistry.....	Cumberland Mills
Benjamin Mosher Cowan, B. S. in Electrical Engineering....	Biddeford
Harry Davis Cowles, B. S. in Chemistry.....	Athol, Mass.
Francis Thenholm Crowe, B. S. in Civil Engineering,	

St. Hyacinthe, Que.

Joseph Wilkinson Crowe, B. S. in Electrical Engineering,

St. Hyacinthe, Que.

Frank Leroy Flanders, B. S. in Civil Engineering.....	Howard, R. I.
Howard Colburn Foss, B. S. in Electrical Engineering....	Boston, Mass.
Charles Leon Foubert, B. S. in Chemistry.....	Danbury, Conn.
Prentiss Edwin French, B. S. in Mechanical Engineering.....	Turner
Edward Charles Gulliver, B. S. in Civil Engineering.....	Portland
Clarence Burr Harlow, B. S. in Electrical Engineering.....	Brewer
Ralph Webster Haskell, B. S. in Mechanical Engineering....	Westbrook
Andrew Jenkins Hayes, B. S. in Civil Engineering.....	Oxford
Roy Edwin Higgins, B. S. in Electrical Engineering.....	Brewer
Horace Alden Hilton, B. S. in Civil Engineering.....	Bangor
Leonard Otis Hopkins, B. S. in Civil Engineering,	

South Framingham, Mass.

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George Kemp Huntington, B. S. in Electrical Engineering..	Lynn, Mass.
Leslie Ingalls Johnston, B. S. in Civil Engineering.....	Milford
Frank Everett Leonard, B. S. in Electrical Engineering.....	Waterville
John Augustine McDermott, B. S. in Mechanical Engineering..	Biddeford
William Samuel Maddocks, B. S. in Electrical Engineering....	Old Town
Lloyd Arthur Martin, B. S. in Civil Engineering.....	Old Town
John May, B. S. in Electrical Engineering.....	Rockland
Lester Hale Mitchell, B. S. in Civil Engineering.....	West Newfield
Clare Joseph Moody, B. S. in Civil Engineering	Winterport
Percival Ray Moody, B. S. in Electrical Engineering.....	Biddeford
Charles Weston Pennell, B. S. in Civil Engineering.....	Gray
Elmer George Rogers, B. S. in Civil Engineering.....	Bowdoinham
Freeman Marston Sampson, B. S. in Chemistry.....	Gorham
Roy Granville Sands, B. S. in Electrical Engineering.....	Foxcroft
Ralph Lowe Seabury, B. S. in Chemistry.....	Yarmouth
Walter Jefferson Shaw, B. S. in Electrical Engineering.....	Orono
Carl David Smith, B. S. in Mechanical Engineering.....	Skowhegan
Dwight Freeman Smith, B. S. in Mechanical Engineering....	Skowhegan
Roy Martin Snell, B. S. in Civil Engineering.....	Lagrange
Howard Arthur Stanley, B. S. in Electrical Engineering..	Beverly, Mass.
Calvin Arthur Sweet, B. S. in Electrical Engineering....	South Atkinson
Ernest Osgood Sweetser, B. S. in Civil Engineering..	Cumberland Center
Fred William Talbot, B. S. in Civil Engineering.....	Andover
Roy Edmund Taylor, B. S. in Electrical Engineering.....	Springvale
Henry David Thoreau Thatcher, B. S. in Civil Engineering.....	Dexter
Burton Merrill Thomas, B. S. in Electrical Engineering.....	Portland
Herbert Arthur Thomas, B. S. in Civil Engineering.....	Andover
Lucian Alvah Thomas, B. S. in Electrical Engineering.....	Rockland
Edward Calder Thomes, B. S. in Civil Engineering.....	Portland
Ernest Eugene Trafton, B. S. in Electrical Engineering.....	Auburn
Oland Wilbur Trask, B. S. in Civil Engineering.....	Woodfords
Carl Wellington Weeks, B. S. in Electrical Engineering.....	Masardis
Alphonso White, B. S. in Mechanical Engineering.....	North Seabago
Frank Osmond White, B. S. in Civil Engineering.....	Orono
Arthur Craig Whittier, B. S. in Chemistry.....	Farmington
Alphonso Wood, B. S. in Civil Engineering.....	Belfast

COLLEGE OF LAW

Ansel Harrison Bridges, LL. B.....	Easton
Leon Gilman Carleton Brown, I.L. B.....	Milo
Royal Weaver Brown, LL. B.....	Boyd Lake
Adolphus Stanley Crawford, LL. B.....	Old Town

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Waldo Trevor Davis, LL. B.....	Clinton, Mass.
Joseph Henry Doyle, LL. B.....	Franklin
Walter Herbert Foster, LL. B.....	Dorchester, Mass.
Herbert Nelson Gardner, LL. B.....	Patten
William Asbury Johnson, LL. B.....	Milo
Orman Leroy Keyes, LL. B.....	Stetson
Arthur Blaine Lancaster, LL. B.....	Gardiner
Daniel Joseph Linehan, LL. B.....	Bradford, Mass.
Neil Vincent MacLean, LL. B.....	Bangor
Lewis Stillman Record, LL. B.....	Worcester, Mass.
Curville Charles Robinson, LL. B.....	East Machias
Charles Tobias Smalley, LL. B.....	Rockland
Erastus Lewis Wall, LL. B.....	Bangor
Joseph Towne Winslow, LL. B.....	New Bedford, Mass.
George Henry Worster, LL. B.....	Bangor

ADVANCED DEGREES

MASTER OF ARTS

DeForest Henry Perkins, B. Ph. (1900) (History).....	Skowhegan
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MASTER OF SCIENCE

Everett Harlow Bowen, B. A. (Colgate, 1903) (Physics),	
	Lowville, N. Y.
LeRoy Harris Harvey, B. S. (1901) (Biology).....	Yankton, S. Dak.

MASTER OF LAWS

Thomas Reardon Geary, LL. B. (1903).....	Bangor
Harold Dudley Greeley, LL. B. (New York University, 1903),	
	Cambridge, Mass.
Clarence Ashton Wood, LL. B. (American University, 1903),	
	Syracuse, N. Y.

CIVIL ENGINEER

Edward Henry Cowan, B. C. E. (1894).....	Marion, Ohio
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MECHANICAL ENGINEER

Harold Wilder Mansfield, B. S. in Mechanical Engineering (1902),	
	Schenectady, N. Y
Stephen Edward Woodbury, B. S. in Mechanical Engineering (1901)	
	Beverly, Mass.

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ELECTRICAL ENGINEER

Clinton Nathan Rackliffe, B. S. in Electrical Engineering (1902),
Schenectady, N. Y.
Stephen Edward Woodbury, B. S. in Electrical Engineering (1901),
Beverly, Mass.

HONORARY DEGREES

DOCTOR OF LAWS

Governor William Titcomb Cobb.
Ex-Governor Charles Brantley Aycock.

DOCTOR OF HUMANITIES

Professor Edward Howard Griggs.

DOCTOR OF SCIENCE

Director Charles Dayton Woods.

PRIZES AWARDED

The various prizes were awarded last year as follows:

The Kidder Scholarship, to Lincoln Hall Hodgkins, Bunker Hill.

The Western Alumni Association Scholarship, to Mildred Chase, Bluehill.

The New York Alumni Association Scholarship, to Albert Prentiss Rounds, Bridgton.

The Boston Alumni Association Scholarship, to Joanna Carver Colcord, Searsport.

The Junior Exhibition Prize, to Joanna Carver Colcord, Searsport.

The Sophomore Declamation Prize, to Reginald Elton Robinson, Oxford.

The Franklin Danforth Prize, to William Jewett Ricker, Turner.

The Walter Valentine Prize, to Thomas Harold Reynolds, Eastport.

The Libby Prize, to William Jewett Ricker, Turner.

The University of Maine

APPOINTMENTS

SPEAKERS AT COMMENCEMENT, JUNE, 1905

Herbert Walter Bachelder, East Winthrop; Adolphus Stanley Crawford, Old Town; Ernest LeRoy Dinsmore, Whiting; Henry Kingman Dow, Old Town; Robert Rutherford Drummond, Bangor; George Kemp Huntington, Lynn, Mass.; Howard Arthur Stanley, Beverly, Mass.; Joseph Towne Winslow, New Bedford, Mass.

SPEAKERS AT THE JUNIOR EXHIBITION, JUNE, 1905

Albert Jared Butterworth, Southbridge, Mass.; Charles William Campbell, Ellsworth; Joanna Carver Colcord, Searsport; Harry Alvah Emery, North Anson; Philip Holden Glover, Harrington; George Herbert Hill, Saco; Raymond Brown Kittridge, Beverly, Mass.; Edward Arthur Stanford, Lovell.

SPEAKERS AT THE SOPHOMORE PRIZE DECLAMATION CONTEST,
DECEMBER, 1904

Marion Balentine, Orono; Lucius Dwelley Barrows, Foxcroft; Joe Kinsman Goodrich, Skowhegan; Stanley Tyng Hilliard, Old Town; Wilbury Owen Hutchins, Orland; Earle Walter Philbrook, Milan, N. H.; Reginald Elton Robinson, Oxford; Howard Carlton Stetson, Auburn.

MEMBERS OF THE PHI KAPPA PHI

Florence Balentine, Orono; Ernest LeRoy Dinsmore, Whiting; Henry Kingman Dow, Old Town; Robert Rutherford Drummond, Bangor; Adolphus Stanley Crawford, Old Town; George Kemp Huntington, Lynn, Mass.; Adelbert Wells Sprague, Bangor; Howard Arthur Stanley, Beverly, Mass.; Lucian Alvah Thomas, Rockland; Carl Wellington Weeks, Masardis; Frank Osmond White, Orono; Joseph Towne Winslow, New Bedford, Mass.

SENIORS RECEIVING GENERAL HONORS

Gould Roydon Anthony, Lincoln; Herbert Walter Bachelder, East Winthrop; Florence Balentine, Orono; Ernest LeRoy Dinsmore, Whiting; Henry Kingman Dow, Old Town; Robert Rutherford Drummond, Bangor; George Kemp Huntington, Lynn, Mass.; Carl David Smith,

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Skowhegan; Adelbert Wells Sprague, Bangor; Howard Arthur Stanley, Beverly, Mass.; Lucian Alvah Thomas, Rockland; Carl Wellington Weeks, Masardis; Frank Osmond White, Orono.

FROM THE COLLEGE OF LAW

Adolphus Stanley Crawford, Old Town; Joseph Towne Winslow, New Bedford, Mass.

SENIORS RECEIVING SPECIAL HONORS

Florence Balentine, Orono, in Biology.

Henry Kingman Dow, Old Town, in German.

Robert Rutherford Drummond, Bangor, in German.

HONORABLE MENTION IN THE COLLEGE OF LAW

Walter Herbert Foster, Dorchester, Mass.

Leon Gilman Carleton Brown, Milo.

CERTIFICATES IN THE SCHOOL OF AGRICULTURE

Herbert Barton Bailey, Biddeford.

Hedley Chapman Black, Winthrop.

Mark Harlan Wakefield, Biddeford.

REPORTED TO THE SECRETARY OF WAR FOR PUBLICATION IN THE NEXT UNITED STATES ARMY REGISTER AS THE THREE MOST DISTINGUISHED STUDENTS IN THE MILITARY DEPARTMENT

George Wilmot Carle, Portland, Maine. "

James Harvey McClure, Bangor, Maine.

Calvin Arthur Sweet, South Atkinson, Maine.

REPORTED TO THE ADJUTANT GENERAL OF MAINE AS HAVING COMPLETED THE COURSE OF MILITARY SCIENCE AND TACTICS

George Wilmot Carle, Portland, Maine.

James Harvey McClure, Bangor, Maine.

Calvin Arthur Sweet, South Atkinson, Maine.

Arthur Craig Whittier, Farmington, Maine.

Howard Arthur Stanley, Beverly, Massachusetts.

Charles Leon Foubert, Danbury, Connecticut.

Horace Alden Hilton, Bangor, Maine.

The University of Maine

CATALOGUE OF STUDENTS

Major subjects are indicated as follows: Ag. Agriculture, Bl. Biology, Ch. Chemistry, Cv. Civics, Ce. Civil Engineering, Ee. Electrical Engineering, Eh. English, Fy. Forestry, Gm. German, Gk. Greek, Hy. History, Lt. Latin, Ms. Mathematics, Me. Mechanical Engineering, Ml. Modern Languages, Pm. Pharmacy, Pl. Philosophy, Ps. Physics, Rm. Romance Languages.

GRADUATE STUDENTS

Balentine, Florence, B. A., Bl.	<i>Orono</i>	College St.
University of Maine, 1905		
Carr, Cleora May, B. S., Ml.	<i>Old Town</i>	Old Town
University of Maine, 1903		
Davis, Grant Train, B. A., Ch.	<i>Orono</i>	61 Main St.
University of Michigan, 1903		
Dow, Henry Kingman, B. A., Gm.	<i>Old Town</i>	Old Town
University of Maine, 1905		
Fowles, Raymond Arthur, B. A., Pl.	<i>Greenville</i>	Greenville
University of Maine, 1905		
Gerrity, Helen Veazie, B. A., Ms.	<i>Bangor</i>	Bangor
Mt. Holyoke, 1905		
Godfrey, Ethel, B. L., Eh.	<i>Bangor</i>	Bangor
Smith College, 1903		
Grover, Archer Lewis, B. M. E.,		
B. S., Ce.	<i>Orono</i>	Mill St.
University of Maine, 1899 and 1902		
Haskell, Horace Bray, Ph. B., Eh.	<i>Orono</i>	Oak St.
Taylor University, 1900		
Mitchell, Fred Carlton, B. S., Ps.	<i>Camden</i>	Camden
University of Maine, 1900		
Seabury, Ralph Lowe, B. S., Ch.	<i>Yarmouth</i>	Middle St.
University of Maine, 1905		
Swain, Pearl Clayton, B. A., Eh.	<i>Patten</i>	Patten
University of Maine, 1899		

SENIORS

Abbott, Herbert Lester, Ce.	<i>Bucksport</i>	Ω Λ Τ House
Bacon, Roy Sawtelle, Ag.	<i>Sidney</i>	301 Oak Hall

The University of Maine

Banks, Frank Arthur, Ce.	<i>Biddeford</i>	A T Ω House
Bearce, Edwin Freeman, Ee.	<i>Auburn</i>	B Θ Π House
Bearce, Henry Walter, Ps.	<i>Hebron</i>	Σ A E House
Bearce, Winfield Dexter, Ee.	<i>Auburn</i>	B Θ Π House
Bennett, Arthur Guy, Ee.	<i>Paris</i>	Φ K Σ House
Bolt, Richard Arthur, Cv.	<i>St. John, N. B.</i>	Bangor
Brockie, John Meikle, Pl.	<i>Old Town</i>	Σ A E House
Brown, Everett Dana, Hy.	<i>South Paris</i>	309 Oak Hall
Burke, Walter Horace, Ee.	<i>Kennebunk</i>	Σ A E House
Butterworth, Albert Jared, Ce.	<i>Southbridge, Mass.</i>	Σ X House
Campbell, Charles William, Ce.	<i>Ellsworth</i>	K Σ House
Carlson, Gotthard Wilhelm, Ee.	<i>Bethel</i>	Φ K Σ House
Cassey, Sidney, Me.	<i>Lynn, Mass.</i>	Ω Λ T House
Churchill, Howard Lincoln, Fy.	<i>Buckfield</i>	Ω Λ T House
Colcord, Joanna Carver, Ch.	<i>Searsport</i>	Mt. Vernon House
Coligny, Guerric Gaspard, Ch.	<i>Springfield, Mass.</i>	A T Ω House
Cowell, Lincoln, Fy.	<i>Dorchester, Mass.</i>	101 Oak Hall
Currier, Charles Ellsworth, Ee.	<i>Brewer</i>	Φ K Σ House
Dolbier, William Ray, Ce.	<i>Salem</i>	Pine St.
Edwards, Dayton James, Bl.	<i>Oxford</i>	Φ K Σ House
Elliot, Samuel Gault, Ce.	<i>Rumford Point</i>	Ω Λ T House
Elliott, Hallet Carroll, Ce.	<i>Patten</i>	Ω Λ T House
Elms, James William, Ch.	<i>Foxcroft</i>	A T Ω House
Emery, Harry Alvah, Ce.	<i>North Anson</i>	B Θ Π House
Forbes, Clinton Fairfield, Ee.	<i>Buckfield</i>	Σ X House
Frost, Walter Oscar, Fy.	<i>Rockland</i>	Φ Γ Δ House
Glover, Philip Holden, Ce.	<i>Harrington</i>	B Θ Π House
Gray, Claude Albert, Me.	<i>Bridgton</i>	211 Oak Hall
Hamlin, Roy Gilbert, Ee.	<i>Gorham, N. H.</i>	Φ K Σ House
Harlow, Frederic Hall, Ag.	<i>Gorham</i>	Φ K Σ House
Hews, Wellington Prescott, Ce.	<i>Ashland</i>	A T Ω House
Hill, George Herbert, Ce.	<i>Saco</i>	Σ A E House
Hodgdon, Carolyn Adelle, Gk.	<i>Hampden Corner</i>	Mt. Vernon [House
Howard, Lester Boyton, Ee.	<i>Dover</i>	Θ E House
Hoxie, Harold Shepherd, Ce.	<i>Fairfield Center</i>	Θ E House
Hoxie, Harvey Hamlin, Ee.	<i>Waterville</i>	Θ E House
Johnson, Caleb Hartwell, Me.	<i>Nahant, Mass.</i>	Φ K Σ House
Jones, Gertrude May, Bl.	<i>Corinna</i>	Mt. Vernon House
Karl, Harold Louis, Ee.	<i>Rockland</i>	Σ X House
Kittredge, Raymond Brown, Ce.	<i>Beverly, Mass.</i>	Σ A E House
Lord, Ralph Edwin, Ce.	<i>Bangor</i>	B Θ Π House

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Lovett, Merton Rooks, Hy.	<i>Beverly, Mass.</i>	Σ A E House
McDermott, William Lawrence, Me.	<i>Biddeford</i>	A T Ω House
Nichols, Leroy Cleveland, Ee.	<i>Saco</i>	Σ A E House
Olds, Robert Franklin, Ce.	<i>Lewiston</i>	301 Oak Hall
Owen, George Stuart, Ce.	<i>Portland</i>	Φ Γ Δ House
Paige, James Lonsdale, Me.	<i>Southbridge, Mass.</i>	Σ X House
Perry, Estelle, Hy.	<i>Penobscot</i>	Mt. Vernon House
Porter, Roy Hiram, Me.	<i>South Paris</i>	Σ A E House
Prince, Charles Edward, Ee.	<i>Kittery</i>	Σ X House
Reed, Frank Radford, Jr., Ce.	<i>Rumford Falls</i>	Σ A E House
Reynolds, Thomas Harold, Ag.	<i>Eastport</i>	Φ Γ Δ House
Richards, Earle Revere, Ce.	<i>New Gloucester</i>	Φ K Σ House
Richardson, Alton Willard, Ag.	<i>Bethel</i>	Main St.
Rogers, David Nathan, Fy.	<i>Patten</i>	K Σ House
Ross, Harold Dockum, Ee.	<i>Skowhegan</i>	Forest St.
Sawyer, Edgar John, Ce.	<i>Milbridge</i>	K Σ House
Sherman, Raphael Simmons, Ee.	<i>Rockland</i>	Σ X House
Simmons, John Percy, Ce.	<i>Belfast</i>	2 Pine St.
Smith, Ralph Seldon, Ee.	<i>Old Town</i>	Old Town
Southard, Frederick Dean, Eh.	<i>Dorchester, Mass.</i>	Φ Γ Δ House
Sparrow, Arthur Leonard, Me.	<i>South Orleans, Mass.</i>	Forest St.
Stanford, Edward Arthur, Ag.	<i>Lovell Center</i>	Σ A E House
Stevens, Fred Oramel, Ce.	<i>Milan, N. H.</i>	Φ K Σ House
Stewart, Frank Carroll, Ee.	<i>Farmington</i>	Θ E House
Tarbox, George Roger, Me.	<i>Machias</i>	Σ A E House
Wallace, James Gordon, Ce.	<i>Portland</i>	B Θ Π House
Webber, Mary Frances, Lt.	<i>Bangor</i>	Mt. Vernon House
Weick, Frank Budge, Ce.	<i>Springfield</i>	Θ E House
Weymouth, Arthur Pettengill, Ee.	<i>Dexter</i>	Φ Γ Δ House
Whitmore, Albert Ames, Hy.	<i>Fryeburg</i>	Mill St.
Worcester, Herbert Wheeler, Ce.	<i>Stamford, Conn.</i>	109 Oak Hall

JUNIORS.

Aiken, Edith Nora, Lt.	<i>Brewer</i>	Mt. Vernon House
Alexander, Wm. Wesley Bannister, Ch.	<i>Everett, Mass.</i>	Ω Λ Τ House
Alton, Francis Osgood, Ee.	<i>West Lynn, Mass.</i>	Mill St.
Austin, Alton Arthur, Ag.	<i>Ridlonville</i>	K Σ House
Balentine, Marion, Ms.	<i>Orono</i>	College St.
Barrows, Arad Thompson, Ce.	<i>Burleigh</i>	16 Main St.
Barrows, Lucius Dwelley, Ce.	<i>Foxcroft</i>	Σ A E House
Bates, John Thaxter, Me.	<i>Calais</i>	Σ A E House
Bean, Ernest Daniel, Ce.	<i>Haverhill, Mass.</i>	302 Oak Hall

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Bean, Perry Ashley, Ce.	<i>Albany</i>	312 Oak Hall
Bird, Sidney Morse, 2nd, Ag.	<i>Rockland</i>	B Θ Π House
Black, Walter Wright, Me.	<i>Beverly, Mass.</i>	Σ A E House
Blanchard, Roy Melville, Ce.	<i>Cumberland Mills</i>	306 Oak Hall
Brann, Benjamin Erwin, Ce.	<i>Waterville</i>	North Main St.
Brawn, Elwin Dresser, Me.	<i>Dexter</i>	B Θ Π House
Brown, Amon Benjamin, Ce.	<i>Lincolnville</i>	Φ Γ Δ House
Bucknam, Ralph Emerson, Ce.	<i>Eastport</i>	Ω Λ Τ House
Burleigh, John Holmes, Eh.	<i>South Berwick</i>	A T Ω House
Burns, Caleb Edgar Slocum, Ag.	<i>Fort Fairfield</i>	Φ Γ Δ House
Cayting, Arno Burr, Fy.	<i>Brewer</i>	III Oak Hall
Claflin, Francis Marsh Albee, Ch.	<i>Upton, Mass.</i>	21 Middle St.
Clayton, Robert Edmund, Ch.	<i>Bangor</i>	K Σ House
Coffin, Roy Selwin, Fy.	<i>Houlton</i>	Φ K Σ House
Connell, Bennett Robert, Ee.	<i>Paris</i>	Σ X House
Cummings, Elmer W., Ce.	<i>Bridgton</i>	312 Oak Hall
Davis, Charles Eugene, Ce.	<i>Castine</i>	Θ E House
Devereux, Rosmar Styer, Ce.	<i>Augusta</i>	204 Oak Hall
Druery, Edward James, Ch.	<i>Boston, Mass.</i>	Oak Hall
Erskine, Fred Stoddard Neville, Ag.	<i>Greenville Junction</i>	Θ E House
Eveleth, Harry Pope, Ee.	<i>Old Town</i>	K Σ House
Fagan, JamesPatrick Vincent, Bl.	<i>Lisbon</i>	Old Town
Foster, Roberto Mower, Ee.	<i>Biddeford</i>	Φ K Σ House
Galland, Joseph, Ce.	<i>Hampden</i>	A T Ω House
Garland, Charlotte Nathaniel, Pl.	<i>Fort Fairfield</i>	Commons
Gellerson, Rex C., Pm.	<i>Skowhegan</i>	Θ E House
Goodrich, Joe Kinsman, Cv.	<i>Spencer, Mass.</i>	K Σ House
Green, Herbert Henry, Ag.	<i>Rockland</i>	3 Peter St.
Hall, William Dickson, Ml.	<i>South Brewer</i>	Φ Γ Δ House
Harlow, Edward Thomas, Ce.	<i>Boston, Mass.</i>	III Oak Hall
Harvell, John Perham, Me.	<i>Winthrop</i>	207 Oak Hall
Hayward, Guy Edwin, Ml.	<i>Damariscotta Mills</i>	Φ Γ Δ House
Hodgkins, Alden E., Ms.	<i>Bunker Hill</i>	4 Forest St.
Hodgkins, Lincoln Hall, Ce.	<i>Brooks</i>	Φ K Σ House
Holbrook, Franklin Pratt, Ce.	<i>West Lynn, Mass.</i>	101 Oak Hall
Hooper, Elmer Guy, Ce.	<i>Rockland</i>	Park St.
Hosmer, Fred Pote, Ch.	<i>Guilford</i>	A T Ω House
Hussey, Erwin Howard, Ce.	<i>Orland</i>	305 Oak Hall
Hutchins, Wilbury Owen, Ce.	<i>Portage</i>	Ω Λ Τ House
Iversen, Arthur, Ce.	<i>Hartland</i>	Σ X House
Jordan, Victor Burns, Fy.	<i>Skowhegan</i>	College St.
Judkins, Ernest LaRoy, Ee.		Oak Hall

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Keirstead, Horton Wilmot, Ce.	<i>Oakland</i>	Σ X House
Knowlton, Herbert Austin, Ee.	<i>Pembroke</i>	Middle St.
Lambe, Emerson Peavy, Ee.	<i>Calais</i>	207 Oak Hall
Lambe, Reginald Robert, Me.	<i>Calais</i>	Σ A E House
Lekberg, Carl Henry, Me.	<i>Worcester, Mass.</i>	Σ X House
Lisherness, Ernest, Ce.	<i>North New Portland</i>	Φ Γ Δ House
Lord, Arthur Russell, Ce.	<i>Ipswich, Mass.</i>	209 Oak Hall
MacDonald, Karl, Me.	<i>Belfast</i>	B Θ Π House
MacInnes, Peter John, Pl.	<i>Ingonish, N. S.</i>	Bangor
McKenzie, Herman Ellis, Me.	<i>West Jonesport</i>	205 Oak Hall
Macomber, Carlton Hambly, Me.	<i>Portsmouth, R. I.</i>	310 Oak Hall
Maddocks, Frank Everett, Ce.	<i>Bluehill</i>	305 Oak Hall
Malloy, Thomas Angelo, Ce.	<i>Lewiston</i>	Mill St.
Mansfield, Mildred Charlotte, Lt.	<i>Orono</i>	Bennoch St.
Martin, Charles Henry, Ce.	<i>Fort Fairfield</i>	Φ Γ Δ House
Matthieu, Joseph Clarence, Ee.	<i>Farmington</i>	Orono House
Merrill, Joseph Farrington, Ch.	<i>Auburn</i>	Forest St.
Nickels, Herbert Lewis, Ce.	<i>Cherryfield</i>	6 Main St.
Orne, Sidney Baxter, Me.	<i>Boothbay Harbor</i>	Orono House
Packard, Harry Ellsworth, Ce.	<i>East Winthrop</i>	Σ A E House
Pennell, Alcot Johnson, Ee.	<i>Melrose Highlands, Mass.</i>	Orono House
Peres, Henry Palacio, Ce.	<i>Lima, Peru</i>	104 Oak Hall
Perry, Donald Cushman, Ee.	<i>Island Falls</i>	16 Main St.
Perry, Tedcastle Bigelow, Ee.	<i>Island Falls</i>	16 Main St.
Philbrook, Earle Walter, Ce.	<i>Milan, N. H.</i>	B Θ Π House
Philbrook, Howard Grenville, Ee.	<i>Shelburne, N. H.</i>	B Θ Π House
Pierce, Stephen Franklin, Ce.	<i>Cooper's Mills</i>	Θ E House
Plummer, Arthur Bartlett, Fy.	<i>North New Portland</i>	Φ Γ Δ House
Purington, Heber Penn, Ce.	<i>Jay</i>	21 Middle St.
Quint, Raymon Alton, Ee.	<i>North Berwick</i>	B Θ ΙΙ House
Read, Carroll Arthur, Ee.	<i>Stillwater</i>	Stillwater
Reed, Lowell Jacob, Ee.	<i>Berlin, N. H.</i>	Φ K Σ House
Ridge, Reginald, Ce.	<i>Portland</i>	K Σ House
Rockwood, Noel Mumford, Me.	<i>Calais</i>	54 North Main St.
Rollins, Deane Whittier, Cv.	<i>Farmington Falls</i>	Φ Γ Δ House
Rounds, Albert Prentiss, Ce.	<i>Bridgton</i>	211 Oak Hall
Russell, William Henry, Ce.	<i>East Boston, Mass.</i>	203 Oak Hall
St. Onge, Walter James, Ee.	<i>Dover</i>	Ω Λ Τ House
Sampson, Arthur Haskell, Ch.	<i>Gorham</i>	201 Oak Hall
Scammon, William Francis, Eh.	<i>Berlin Mills, N. H.</i>	54 N. Main St.
Schoppe, William Freeman, Ag.	<i>West Auburn</i>	Σ A E House

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Seamon, Percy Ralph, Ee.	<i>Roxbury, Mass.</i>	107 Oak Hall
Simmons, Frederick Johnson, Cv.	<i>Morrill</i>	Oak Hall
Smith, Herbert Henry, Ce.	<i>East Corinth</i>	Main St.
Stetson, Everett Halliday, Ce.	<i>Auburn</i>	K Σ House
Stetson, Howard Carlton, Ce.	<i>Auburn</i>	Φ K Σ House
Stevens, Albert William, Ee:	<i>Belfast</i>	B Θ Π House
Stone, William Elmer, Me.	<i>South Brewer</i>	Φ K Σ House
Sturtevant, Walter Linwood, Ch.	<i>Bangor</i>	B Θ Π House
Swift, Porter LaForrest, Me.	<i>Norway</i>	Φ K Σ House
Talbot, Richard Foster, Ag.	<i>Andover</i>	Σ A E House
Tate, Edith Mabel, Eh.	<i>East Corinth</i>	Mt. Vernon House
Tebbets, Charles Bucknam, Ce.	<i>Auburn</i>	Forest St.
Totman, Arnold Washington, Ce.	<i>Fairfield</i>	K Σ House
Washburn, Willis Flye, Ch.	<i>China</i>	A T Ω House
Weld, Moses Waldo, Me.	<i>Old Town</i>	Old Town
Williams, Benjamin Franklin, Ce.	<i>North Islesboro</i>	A T Ω House
Wilson, Elmer Josiah, Ee.	<i>Lynn, Mass.</i>	Σ X House
Wilson, Jesse D., Ce.	<i>Brunswick</i>	North Main St.
Witham, Lester Clyde, Ce.	<i>North Anson</i>	202 Oak Hall
Wyman, Abel Percival, Ce.	<i>Skowhegan</i>	Σ A E House
York, Verne Jerome, Ee.	<i>Bangor</i>	Bangor

SOPHOMORES.

Bagley, Edward Spaulding, Ch.	<i>Woodfords</i>	B Θ Π House
Beedle, Arthur Lawrence, Ee.	<i>South Gardiner</i>	Main St.
Black, Walter Lauriston, Ee.	<i>Sandypoint</i>	Myrtle St.
Boyle, Claude, Ch.	<i>Dover</i>	A T Ω House
Brown, Sarah Ellen, Gk.	<i>Old Town</i>	Mt. Vernon House
Brownell, Chester Arthur, Ce.	<i>Newport, R. I.</i>	Θ E House
Capen, Howard Benjamin, Ee.	<i>Eastport</i>	B Θ Π House
Chase, Daniel, Ms.	<i>Baring</i>	Σ A E House
Chase, Mary Ella, Eh.	<i>Bluehill</i>	Mt. Vernon House
Chase, Mildred, Ms.	<i>Bluehill</i>	Mt. Vernon House
Cobb, William Alfred, Ce.	<i>Auburn</i>	Φ K Σ House
Coleman, Everett Clinton, Ch.	<i>Roxbury, Mass.</i>	Ω Λ Τ House
Collins, Bernard Ira, Ce.	<i>Haverhill, Mass.</i>	Mill St.
Cram, Edward Winslow, Cv.	<i>Portland</i>	K Σ House
Cummings, Robert Lincoln, Me.	<i>Gorham</i>	Φ Γ Δ House
Davis, Raymond Earl, Ce.	<i>Rumford Falls</i>	Θ E House
Dixon, Leon Snell, Ce.	<i>Orono</i>	College St.
Dow, Owen Oscar, Cv.	<i>Hiram</i>	Φ Γ Δ House
Draper, Clifford Lester, Ee.	<i>Stoneham, Mass.</i>	Θ E House

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Durgin, Albert Guy, Ch.	<i>Orono</i>	Middle St.
Ellis, Harold Milton, Eh.	<i>Hingham, Mass.</i>	3 Peters St.
Emery, Francis Philip, Ee.	<i>Eastport</i>	Σ A E House
Estabrooke, Elizabeth Read, Eh.	<i>Orono</i>	Main St.
Farnsworth, James Pitt, Ee.	<i>Milbridge</i>	Θ E House
Fellows, Raymond, Cv.	<i>Bucksport</i>	Φ Γ Δ House
Fenn, Charles Henry, Ce.	<i>Portland</i>	Σ X House
Files, Frederick Whitney, Ee.	<i>Portland</i>	Θ E House
Fish, Frank Willard, Fy.	<i>Orono</i>	A T Ω House
Fogler, Ben Baker, Me.	<i>Skowhegan</i>	Σ X House
French, Frank Danford, Ce.	<i>Jonesport</i>	K Σ House
Gannett, James Adrian, Ee.	<i>Yarmouth</i>	Φ K Σ House
Hanscom, Arthur Snow, Ce.	<i>Leeds Junction</i>	Φ Γ Δ House
Hardison, Grover Merrill, Ce.	<i>Caribou</i>	Ω Λ T House
Harris, Bell Curry, Gm.	<i>Sherman Mills</i>	Old Town
Hatch, Roy Otis, Ch.	<i>West Groton, Mass.</i>	Myrtle St.
Heath, Ralph Curtis, Ce.	<i>Revere, Mass.</i>	212 Oak Hall
Hill, William Andrew, Ce.	<i>Winterport</i>	Φ Γ Δ House
Hopkins, George Jesse, Me.	<i>Bath</i>	B Θ Π House
Howard, Elwood Lee, Ee.	<i>Sangerville</i>	61 Mill St.
Irish, Joshua Swett, Ag.	<i>Gorham</i>	112 Oak Hall
Johnson, Charles Arthur, Ee.	<i>Berlin Mills, N. H.</i>	26 Peters St.
Jordan, Ralph Dexter, Me.	<i>Lewiston</i>	Ω Λ T House
Keating, Joseph Sylvester, Cv.	<i>Red Beach</i>	Main St.
Kendregan, John Thompson, Ce.	<i>Rockland, Mass.</i>	K Σ House
Knight, George Raymond, Ee.	<i>North Waterford</i>	16 Main St.
Lancaster, Howard Augustus, Ce.	<i>Old Town</i>	Old Town
Lanpher, Stacy Clifford, Gm.	<i>Sebec</i>	Ω Λ T House
Libby, Paul, Ce.	<i>Somersworth, N. H.</i>	302 Oak Hall
Locke, Samuel Barry, Fy.	<i>West Paris</i>	Σ X House
Loft, John Edgar, Ce.	<i>Springfield, Mass.</i>	North Main St.
Lord, Leslie Roland, Ee.	<i>Poquonock, Conn.</i>	Σ X House
McNamara, William Stephen, Ce.	<i>Millville, Mass.</i>	212 Oak Hall
Meserve, Claude Pitman, Me.	<i>North Bridgton</i>	Σ A E House
Milliken, Earle Linwood, Ee.	<i>Westbrook</i>	A T Ω House
Miner, Henry LeRoy, Ch.	<i>Haverhill, Mass.</i>	A T Ω House
Mitchell, Roby Lawton, Cv.	<i>West Newfield</i>	Φ Γ Δ House
Morton, Fred Constine, Ee.	<i>South Windham</i>	112 Oak Hall
Neal, Arthur Francisco, Ce.	<i>North Berwick</i>	B Θ Π House
Osgood, William Thompson, Ec.	<i>Garland</i>	Myrtle St.
Penney, Paul Stinchfield, Ce.	<i>Augusta</i>	210 Oak Hall
Perkins, Howard Lewis, Ee.	<i>Augusta</i>	210 Oak Hall

The University of Maine

Reynolds, Carl Wilson, Ee.	<i>Bar Harbor</i>	Θ E House
Rich, Harry Herbert, Ee.	<i>Bangor</i>	K Σ House
Robinson, Philip Increase, Ee.	<i>Waterville</i>	Φ K Σ House
Sargent, Leslie Wheeler, Me.	<i>South Brewer</i>	B Θ Π House
Sawyer, William Robert, Me.	<i>Milbridge</i>	K Σ House
Skofield, Perley Fiske, Ag.	<i>Houlton</i>	Campus
Smith, Frank Folsom, Ce.	<i>Rumford Falls</i>	Σ A E House
Smith, Herman Brackett, Ee.	<i>Saco</i>	Φ K Σ House
Smith, Oscar Franklin, Ee.	<i>Calais</i>	A T Ω House
Smith, Raymond Judson, Fy.	<i>Skowhegan</i>	Φ Γ Δ House
Steward, Robert Kent, Ce.	<i>Skowhegan</i>	Φ Γ Δ House
Sturtevant, Merle Alton, Ps.	<i>Hebron</i>	Σ A E House
Tabor, Ralph Sanborn, Ce.	<i>Haverhill, Mass.</i>	A T Ω House
Toner, Ernest Leroy, Fy.	<i>Auburn</i>	Σ X House
Trask, Warren Dudley, Ce.	<i>Augusta</i>	K Σ House
Vickery, Earle Nelson, Ee.	<i>Pittsfield</i>	Σ X House
Wakefield, Sylvia Serena, Ml.	<i>Saco</i>	Mt. Vernon House
Weston, Clarence McLellan, Ce.	<i>Madison</i>	College St.
Wilbur, Walter Edmund, Ee.	<i>Pembroke</i>	21 Middle St.
Wildes, Gordon Lunt, Ce.	<i>Skowhegan</i>	K Σ House

FRESHMEN

Albee, Guy Edwin	<i>Machias</i>	40 North Main St.
Austin, Thomas Dillon	<i>Farmington</i>	A T Ω House
Barber, Clarence Wallace	<i>Woodfords</i>	Mill St.
Barron, George Frank	<i>Norway</i>	Forest St.
Bennet, DaCosta FitzMaurice	<i>Lubec</i>	Θ E House
Bibber, Ray Odin	<i>Eastport</i>	7 Main St.
Black, William Milgate	<i>Belfast</i>	308 Oak Hall
Blake, Harold Edwin,	<i>Saco</i>	Park St.
Bowman, Harold Melville	<i>Salmon Falls, N. H.</i> , North Main St.	
Brann, Bertrand French	<i>Bangor</i>	Bangor
Brewer, Ernest Malcolm	<i>Bar Harbor</i>	Ω Α Τ House
Brimmer, George Hollis	<i>Brewer</i>	B Θ Π House
Brown, Wallace Francis	<i>Yarmouth</i>	Forest St.
Bruce, Herbert Putnam	<i>Lynn, Mass.</i>	Θ E House
Carlisle, George Thomas	<i>North Edgecomb</i>	57 Mill St.
Carter, Warren Alfred	<i>Nobleboro</i>	16 Main St.
Chase, Florence Polleys	<i>Baring</i>	Mt. Vernon House
Chandler, Bernard Albert	<i>New Gloucester</i>	Φ K Σ House
Clement, James Donald	<i>Belfast</i>	308 Oak Hall
Clemons, Samuel Wadsworth	<i>Hiram</i>	A T Ω House

The University of Maine

Cleveland, Charles Calvin	<i>Skowhegan</i>	Pine St.
Collins, John Lambert	<i>Gardiner</i>	Main St.
Conner, Warren Edward	<i>Auburn</i>	Φ K Σ House
Corson, Preston Llewellyn	<i>Wilton</i>	21 Middle St.
Cragin, Philbur Leroy	<i>Woodfords</i>	63 Mill St.
Davis, Cyrus Hersey	<i>Woodfords</i>	Mill St.
Eddy, Harold Frederick	<i>Bangor</i>	Bangor
Edgcomb, Leslie	<i>Kennebunk</i>	North Main St.
Elliott, Allen Edrick	<i>Somerville, Mass.</i>	K Σ House
Emerson, Walter Lee	<i>Orono</i>	Main St.
Estabrooke, Carl Bertrand	<i>Orono</i>	Main St.
Farrar, Cecil C.	<i>Guilford</i>	Old Town
Farwell, Howard Lovering	<i>Dorchester, Mass.</i>	Φ Γ Δ House
Finnigan, Edward Joseph	<i>Bangor</i>	103 Oak Hall
Fogler, William Andrews	<i>West Rockport</i>	Σ X House
French, Guy Clifton	<i>Skowhegan</i>	303 Oak Hall
Fulton, Charles Melville	<i>Effingham Falls, N. H.</i>	Myrtle St.
Gardner, Edward Earle	<i>East Machias</i>	Σ A E House
Gerrity, Joe Warren	<i>Bangor</i>	K Σ House
Gould, Barnet Benjamin	<i>Salem, Mass.</i>	Mill St.
Haggett, Harold Daniel	<i>Bath</i>	Ω Λ Τ House
Haley, William Washburn	<i>Fort Fairfield</i>	Ω Λ Τ House
Hall, Bertram Mellor	<i>Lawrence, Mass.</i>	Σ A E House
Hall, Earle Wilmer	<i>New Portland</i>	Forest St.
Ham, Philip Winthrop	<i>Livermore Falls</i>	Φ K Σ House
Hamlin, Dunton	<i>Orono</i>	Main St.
Hamor, George Howard	<i>Bar Harbor</i>	Ω Λ Τ House
Harvey, Florence Evelyn	<i>Orono</i>	Main St.
Harvey, Walter Ora	<i>Kenduskeag</i>	North Main St.
Harvey, Willis Lake	<i>Orono</i>	Main St.
Hayward, Ralph Simpson	<i>Orono</i>	Main St.
Henry, Ralph Morton	<i>Cumberland Mills</i>	63 Mill St.
Higgins, Harrison Parker	<i>Somerville, Mass.</i>	Σ A E House
Hilton, William	<i>Greenville</i>	Φ K Σ House
Hinckley, Edward Benjamin	<i>Hinckley</i>	Φ K Σ House
Hinkley, Willard Merrill	<i>West Jonesport</i>	Σ X House
Hodgins, Robert Lyle	<i>Hampden</i>	Φ Γ Δ House
Hutchinson, Arthur Nash	<i>Cherryfield</i>	Σ X House
Jackson, Ralph Lysander	<i>Jefferson</i>	Σ A E House
Jewett, John Nelson	<i>Cherryfield</i>	Σ X House
Johnson, Howard Rich	<i>Portland</i>	North Main St.
Jones, Laurence Vivian	<i>Bangor</i>	K Σ House
Keating, Edmund Bernard	<i>Salem, Mass.</i>	Mill St.

The University of Maine

Keith, Ballard Freese	<i>Old Town</i>	Φ Γ Δ House
Kimball, Winfield Alfred	<i>Norway</i>	Φ K Σ House
Kinghorn, Charles Wesley	<i>Yarmouthville</i>	Forest St.
Knight, Frederick Daniel	<i>Limerick</i>	Φ K Σ House
Littlefield, Joseph Philip	<i>Ogunquit</i>	A T Ω House
Littlefield, Philip Henry	<i>Portland</i>	Myrtle St.
Lockyer, Scott Sylvester	<i>Eustis</i>	A T Ω House
Lynch, John Philip	<i>South Berwick</i>	A T Ω House
McKay, John Knox	<i>Houlton</i>	Σ X House
MacLean, Daniel Wallace	<i>Eastport</i>	College St.
Marsh, Harold Pinkham	<i>Bangor</i>	B Θ Π House
Mason, Jesse Ham	<i>Beverly, Mass.</i>	Σ X House
Mayo, Clarence Arthur	<i>Hampden Corner</i>	B Θ Π House
Mayo, Norman Haskell	<i>Blue Hill</i>	Σ X House
Merriman, Merle Eli	<i>Portland</i>	Φ K Σ House
Michaels, Chellis Hiram	<i>Belfast</i>	Θ E House
Miller, Harold Redmere	<i>South Berwick</i>	North Main St.
Milliken, Sewall	<i>West Scarboro</i>	Park St.
Mooney, Percy Patrick	<i>Bangor</i>	Bangor
Moor, Leon Russell	<i>Ellsworth</i>	310 Oak Hall
Moore, Irving Hartwell	<i>Readfield</i>	B Θ Π House
Morgan, Edwin Randolph	<i>Sangerville</i>	10 Pine St.
Morrell, Harry Edwin	<i>Lewiston</i>	Main St.
Morrison, Robley Howe	<i>Rumford Falls</i>	College St.
Morrison, Roy	<i>Saco</i>	A T Ω House
Morton, Edward Watts	<i>Kennebunk</i>	Σ A E House
Nash, Henry Leighton	<i>Cherryfield</i>	Σ A E House
Nason, Charles Jewell	<i>Hampden</i>	Φ Γ Δ House
Paine, Charles Brooks	<i>Eastport</i>	Myrtle St.
Paine, Sherman Rogers	<i>Eastport</i>	Φ Γ Δ House
Parker, Horace Albion	<i>Livermore Falls</i>	307 Oak Hall
Patterson, Alfred Bassett	<i>Winslow</i>	307 Oak Hall
Pettegrow, Herbert Tracy	<i>East Machias</i>	Oak St.
Pike, Lewis Freeman	<i>Milton, N. H.</i>	K Σ House
Plumly, Clinton Alley	<i>Lincoln</i>	Φ K Σ House
Fray, Elmer Onsville	<i>Kittery</i>	A T Ω House
Randall, James William	<i>Freeport</i>	Ω Λ Τ House
Ray, Vinton Royal	<i>Sabattus</i>	Main St.
Rich, Harold Arthur	<i>Bangor</i>	Bangor
Richardson, Frank Cummings	<i>Jefferson</i>	Σ A E House
Richardson, Irene Clara	<i>Old Town</i>	Old Town
Ringwall, Frederick Algot	<i>Bangor</i>	K Σ House
Roberts, Benjamin Lewis	<i>Bangor</i>	Θ E House

The University of Maine

Rollins, Kenneth Albert	<i>Farmington Falls</i>	Φ Γ Δ House
Rowe, Benjamin Elwood	<i>Oxford</i>	308 Oak Hall
Scales, James Grindle	<i>Guilford</i>	Φ Γ Δ House
Shatney, Thomas Franklin	<i>Orono</i>	28 Pine St.
Shaw, Christine Myrtle	<i>Orono</i>	Park St.
Shaw, Cora Mae	<i>Orono</i>	Park St.
Sherman, Raymond Richard	<i>Belfast</i>	40 North Main St.
Simmons, Francis Eaton	<i>Rockland</i>	B Θ Π House
Smith, Allen G.	<i>Jonesport</i>	Forest St.
Smith, Dexter Southworth Johnson	<i>Brewer</i>	Brewer
Smith, Harry Woodbury	<i>Sangerville</i>	10 Pine St.
Smith, Wilbur Olin	<i>Peabody, Mass.</i>	Myrtle St.
Steward, Helen Farwell	<i>Skowhegan</i>	Mt. Vernon House
Sutton, Harry Edward	<i>Orono</i>	Bennoch St.
Sweetser, George Roy	<i>Hampden</i>	Main St.
Taylor, Russell Shepard	<i>Skowhegan</i>	Θ E House
Thomas, Deane Stanley	<i>Yarmouthville</i>	Forest St.
Torrey, Guy Ellicott	<i>Dorchester, Mass.</i>	K Σ House
Towle, Elton LaForrest	<i>Portland</i>	Φ Γ Δ House
Walker, Harold Edward	<i>Sabattus</i>	Main St.
Wescott, Thurman Cony	<i>Patten</i>	12 Main St.
White, Harry Alfred	<i>Lynn, Mass.</i>	K Σ House
Williams, Thomas Charles	<i>Salem, Mass.</i>	Mill St.
Woodbury, Dwight Augustus	<i>Beverly, Mass.</i>	Σ X House
Worth, Edna Curtis	<i>East Corinth</i>	Mt. Vernon House

SHORT PHARMACY COURSE

SECOND YEAR

Gordon, Harry Leon	<i>Augusta</i>	B Θ Π House
Marr, Leon Herbert	<i>Farnington</i>	Orono House
Preble, Ralph Huston	<i>Machias</i>	Θ E House
Williams, Roger Orland	<i>Hartland</i>	Campus

FIRST YEAR

Beal, Arthur Nathaniel	<i>Lisbon Falls</i>	309 Oak Hall
Butterfield, Carroll Curtis	<i>Dover</i>	College St.
Findlen, Thomas Miles	<i>Caribou</i>	Myrtle St.
Hinckley, Joseph Thomas	<i>Bluehill</i>	Σ X House
Parkin, John William	<i>Lisbon Falls</i>	105 Oak Hall
Riddle, Harry Colburn	<i>Monson</i>	North Main St.
Rogers, Frederick Drummond	<i>Richmond</i>	Σ X House
Saunders, William Houston	<i>Deer Isle</i>	Commons
White, Frank M.	<i>Vinalhaven</i>	North Main St.

The University of Maine

SPECIAL STUDENTS

Alexander, Jefferson Leavitt	<i>Eastport</i>	Σ A E House
Anderson, William Lewis, Jr.	<i>Hartland</i>	Φ Γ Δ House
Bailey, Frank Linwood	<i>South Harpswell</i>	A T Ω House
Berry, Albert Ivory	<i>Biddeford</i>	10 Pine St.
Blaisdell, Ernest Dennison	<i>Oakland</i>	Θ E House
Bolt, Ernest Albert	<i>St. John, West N. B.</i>	Bangor
Colcord, Maude Brown	<i>Searsport</i>	Mt. Vernon House
Corrigan, Margaret Mary	<i>Noroton Heights, Conn.</i>	[Mt. Vernon House
Crowell, Philip Holmes	<i>Bangor</i>	A T Ω House
Day, Lester Scott	<i>Wiscasset</i>	Mill St.
Deering, George P.	<i>Winslow's Mills</i>	Middle St.
Dingley, Donald L.	<i>Portland</i>	Θ E House
Drew, Pierce Allen	<i>Orono</i>	B Θ II House
Farnham, Harry Lester	<i>Lynn, Mass.</i>	Θ E House
Fisher, Ray Haynes	<i>Pepperell, Mass.</i>	College St.
Flint, Adelaide Eleanor	<i>Orono</i>	Main St.
Godfrey, Harold Ernest	<i>Sabattus</i>	Main St.
Greany, Thomas H.	<i>Fall River, Mass.</i>	2 Bennoch St.
Hackett, Joseph James	<i>Newport, R. I.</i>	Oak Hall
Hall, Harold Worcester	<i>Augusta</i>	B Θ II House
Hardy, Simeon Joseph	<i>East Hampden</i>	105 Oak Hall
Hayward, Bertha Vivian	<i>Orono</i>	Main St.
Jacobs, Joseph	<i>West Boylston, Mass.</i>	3 Middle St.
Knight, Mary Warren	<i>Deer Isle</i>	Mt. Vernon House
Knight, Mattie Grover	<i>Deer Isle</i>	Mt. Vernon House
Leslie, Edward Warren	<i>Millinocket</i>	10 Pine St.
Libby, Eva Catherine	<i>Hartland</i>	Mt. Vernon House
McKenney, Blake	<i>Bangor</i>	Bangor
May, Seth	<i>Auburn</i>	Bangor
Mitchell, Sanford Stevens	<i>Cherryfield</i>	Main St.
Moody, Ralph Henry	<i>Auburn</i>	K Σ House
Nash, Clara Augusta	<i>Orono</i>	Mill St.
Palmer, Edwin Lindsay	<i>Portland</i>	Θ E House
Pickering, Winthrop Hamilton	<i>New Haven, Conn.</i>	College St.
Potter, Benjamin Laurence	<i>Litchfield</i>	Main St.
Potter, Robert Eaton	<i>Bath</i>	Σ X House
Prentiss, Margaret Montgomery	<i>Bangor</i>	Bangor
Smith, George Lewis	<i>Long Cove</i>	Σ X House
Southwick, Everett Frost	<i>Peabody, Mass.</i>	Myrtle St.
Spearen, Ellenor Ella	<i>. Orono</i>	College St.

The University of Maine

Thomas, Searle Fowler	<i>Lincoln</i>	Φ K Σ House
Todd, Arthur Lee	<i>Georgetown</i>	Myrtle St.
Torré, Miguel Angel de la	<i>Matanzas, Cuba</i>	Bennoch St.
Tremaine, Arthur Edward	<i>Halifax, N. S.</i>	Oak Hall
Whipple, LeRoy Francis	<i>Pawtucket, R. I.</i>	K Σ House
Witherell, Louis Von	<i>Oakland</i>	B Θ II House
Wood, Frank Foster	<i>Old Town</i>	Old Town
Yates, Howard Douglass	<i>Atlanta, Ga.</i>	K Σ House
Zatlin, Louis Edward	<i>St. Louis, Mo.</i>	Mill St.

SCHOOL OF AGRICULTURE

SECOND YEAR

Abbott, Stephen Edward	<i>Bethel</i>	Park St.
Bickford, Harold Frank	<i>North Dixmont</i>	Park St.
Carver, James Herbert	<i>Vinal Haven</i>	North Main St.
Houghton, Ervin Albert	<i>Fort Fairfield</i>	Ω Λ Τ House
Packard, Ransom C.	<i>Brockton, Mass.</i>	Campus

FIRST YEAR

Colley, Albert Chester	<i>Denmark</i>	2 Bennoch St.
Harper, Morrell	<i>Biddeford</i>	Park St.
Nash, Herbert	<i>South Windham</i>	37 Mill St.
Ricker, Fred Page	<i>Turner</i>	2 Bennoch St.
Soule, Malcolm Montgomery	<i>South Freeport</i>	Myrtle St.
Stratton, Chester Winfield	<i>Hancock</i>	Oak St.
Worcester, Benjamin C.	<i>Columbia</i>	Myrtle St.

SUMMER SESSION

Abbreviations indicate subjects taken.

Albee, Rena Belle	<i>Wiscasset</i>	Rm., Eh., Ps., Ag.
Allen, Caroline French	<i>Bangor</i>	Pl., Hy., Bl.
Annis, Julia Mae	<i>Camden</i>	Ms., Eh., Pl.
Bearce, Edwin Freeman	<i>Auburn</i>	Rm., Pl.
Bolt, Ernest Albert	<i>St. John, N. B.</i>	Gm., Pl., Eh.
Bolt, Richard Arthur	<i>St. John, N. B.</i>	Hy., Gm., Ag.
Bragden, Kenneth Edward	<i>East Sullivan</i>	Rm., Ch.
Brown, Amon Benjamin	<i>Lincolnville</i>	Rm., Pl.
Burnham, Bertha Williams	<i>Old Town</i>	Rm., Eh.
Capron, Maude Estelle, B. A.	<i>Pawtucket, R. I.</i>	Ps.

Wellesley, 1896

Chaney, Irwin Wayne	<i>Brunswick</i>	Bl.
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The University of Maine

Corrigan, Margaret Mary	<i>Noroton Heights, Conn.</i>	
		[Rm., Eh., Ms.
Colcord, Joanna Carver	<i>Searsport</i>	Ch.
Craft, Ralph	<i>Lincoln</i>	Ms.
Dolbier, William Ray	<i>Salem</i>	Eh., Rm., Ps.
Estabrooke, Carl Bertrand	<i>Orono</i>	Ms., Rm.
Estabrooke, Marion Corthell	<i>Orono</i>	Rm.
Fellow's, Dorothy Russell	<i>Orono</i>	Rm.
Floyd, Charles Wallace	<i>Wytopitlock</i>	Bl., Pl.
Foley, Anna Gertrude	<i>Worcester, Mass.</i>	Bl., Hy.
Fowler, Abbie Mary	<i>Sangerville</i>	Bl., Eh., Ms., Rm.
Gerrity, Joe Warren	<i>Bangor</i>	Ms., Rm.
Grant, Edith M.	<i>Bangor</i>	Gm., Rm., Ag.
Hagarty, Laura Dunbar	<i>Buffalo, N. Y.</i>	Eh.
Hall, Earle Wilmer	<i>North Anson</i>	Ms., Rm.
Hamlin, Charles Mayo	<i>Orono</i>	Rm., Gm.
Henry, Mary Catherine	<i>Worcester, Mass.</i>	Bl., Hy.
Kelleher, Marion Gertrude	<i>Orono</i>	Pl., Ag.
Knight, Mary Warren	<i>Deer Isle</i>	Rm., Gm., Lt.
Knight, Mattie Grover	<i>Deer Isle</i>	Rm., Gm., Lt.
McMahon, Harold Cousins	<i>Brewer</i>	Ms., Rm.
Martin, Charles Henry	<i>Fort Fairfield</i>	Ms., Hy., Pl.
Mayers, Clayton Wadleigh	<i>Dresden</i>	Ms., Ps.
Mitchell, Fred Carleton, B. S.	<i>Camden</i>	Ps., Ch.
University of Maine, 1900		
Moody, Frank Wilson	<i>Hallowell</i>	Ps., Ch.
Paine, Sherman Rogers	<i>Eastport</i>	Ch., Lt., Hy.
Peabody, Ellen Holway	<i>Machias</i>	Eh., Rm., Bl.
Plumly, Clinton Alley	<i>Lincoln</i>	Ms., Rm., Eh.
Reynolds, Thomas Harold	<i>Eastport</i>	Rm., Gm.
Rice, Marie Cecilia, B. S., M. S.	<i>Bangor</i>	Bl., Rm., Eh.
University of Maine, 1902, 1903		
Ross, Harold Dockum	<i>Skowhegan</i>	Ps., Hy.
Sanders, Thomas Andrew	<i>Sangerville</i>	Bl., Lt., Hy.
Sargent, Hannah Butman	<i>Alton</i>	Pl., Bl., Ag.
Sargent, Jessie	<i>Alton</i>	Rm., Ps., Ag.
Shatney, Thomas Frank	<i>Orono</i>	Ms.
Simmons, Frederick Johnson	<i>Morrill</i>	Gm., Hy.
Smith, Edward Henry, B. M. E.	<i>Ashville</i>	Ch.
University of Maine, 1900		
Smith, Nathan Rideout, A. B.	<i>Orono</i>	Ps.
Bates College, 1895		
Stevens, Albert William	<i>Belfast</i>	Ps.

The University of Maine

Steward, Helen Farwell	<i>Skowhegan</i>	Ms., Rm.
Steward, Robert Kent	<i>Skowhegan</i>	Ch., Ms., Rm., Pl.
Thompson, Blanche Evelyn	<i>Santa Ana, Calif.</i>	Eh., Gm., Rm.
Thompson, Harwell Cloud	<i>Harvey, Ill.</i>	Ms., Bl.
Toner, Ernest Leroy	<i>Auburn</i>	Ms., Bl.
Wadsworth, Charles Sabin	<i>Canton Point</i>	Ch., Ms.
Ware, Amy Estell	<i>Bangor</i>	Eh., Bl., Rm., Gm.
Wass, Clifton Eunis	<i>Sangerville</i>	Rm., Gm.
Whitney, Charles, B. S.	<i>Dresden Mills</i>	Ch., Ms.
Middlebury College, 1903		
Wood, Frank Foster	<i>Old Town</i>	Ms.
Wright, Mary Payson	<i>Wiscasset</i>	Eh., Lt., Rm., Ps.

SHORT WINTER COURSES IN AGRICULTURE

Brown, Elou LeRoy	<i>Norway</i>	Park St.
Burgess, Millard Ashton	<i>Caribou</i>	2 Bennoch St.
Carver, Maud Mahala	<i>North Bangor</i>	Campus
Glover, Howard Edward	<i>Hebron</i>	207 Oak Hall
Graham, William Thomas	<i>Portland</i>	Orono House
Haseltine, Fred Leonard	<i>Dexter</i>	2 Bennoch St.
Kochler, Louis Cleveland	<i>Southampton, Mass.</i>	2 Bennoch St.
Patten, Ulysses Grant	<i>Orono</i>	Crosby St.
Reed, Florence Elva	<i>Gardiner</i>	2 Bennoch St.

THE COLLEGE OF LAW

GRADUATE STUDENTS

Blanchard, Benjamin Willis, LL. B. <i>Bangor</i>	118 Congress St.
University of Maine, 1904	
Bowker, Edgar Marshall, LL. B. <i>Whitefield, N. H.</i>	
George Washington University, 1902	
Bridges, Ansel Harrison, LL. B. <i>Old Town</i>	Old Town
University of Maine, 1904	
Brown, Leon Gilman Carleton, LL.B. <i>Milo</i>	
University of Maine, 1905	
Cook, Harold Elijah, LL. B. <i>Waterville</i>	
University of Maine, 1900	
Davis, Waldo Trevor, B. A., LL. B. <i>Worcester, Mass.</i>	
Dartmouth College, 1901. University of Maine, 1905.	
Dunn, Patrick Henry, LL. B. <i>Bangor</i>	Bass Building
University of Maine, 1902	

The University of Maine

Folsom, LeRoy Rowell, B. S.	<i>South Norridgewock</i>	
University of Maine, 1895		
Foster, Walter Herbert, LL. B.	<i>Dorchester, Mass.</i>	
University of Maine, 1905		
Hight, Clarence Bertram, LL. B.	<i>Dexter</i>	
University of Maine, 1904		
Johnson, William Asbury, LL. B.	<i>Milo</i>	
University of Maine, 1905		
Linehan, Daniel Joseph, LL. B.	<i>Haverhill, Mass.</i>	
University of Maine, 1905		
Lord, Harry, LL. B.	<i>Bangor</i>	82 Cumberland St.
University of Maine, 1902		
Merrill, John Bryant, LL. B.	<i>Bangor</i>	18 Jefferson St.
University of Maine, 1904		
Noble, Ernest Eugene, B. A., LL. B.	<i>Portland</i>	
Colby College, 1897. University of Maine, 1903		
Putnam, Varney Arthur, B. A., LL. B.	<i>Danforth</i>	
Colby College, 1899. University of Maine, 1902		
Plumstead, Frank, B. A., LL. B.	<i>Bangor</i>	Hammond St.
Bates College, 1896. University of Maine, 1901		
Record, Lewis Stillman, Ph. B., LL. B.	<i>Worcester, Mass.</i>	
Brown University, 1902. University of Maine, 1905		
Reid, Charles Hickson, LL. B.	<i>Bangor</i>	60 Lincoln St.
University of Maine, 1903		
Robinson, Curville Charles, LL. B.	<i>Flatbush, N. Y.</i>	
University of Maine, 1905		
Robinson, William Henry, LL. B.	<i>Bangor</i>	42 Hammond St.
University of Maine, 1902		
Selkirk, Robert William, LL. B.	<i>Boston, Mass.</i>	
University of Maine, 1902		
Violette, Nil Louis, B. A., LL. B.	<i>Van Buren</i>	
St. Mary's College. University of Maine, 1903		
Wall, Erastus Lewis, B. A., LL. B.	<i>Easton Center</i>	
Bates College, 1902. University of Maine, 1905		
Waterhouse, William Henry, LL. B.	<i>Old Town</i>	
University of Maine, 1900		
Worster, George Henry, LL. B.	<i>Bangor</i>	234 Center St.
University of Maine, 1905		

SENIORS

Andrews, Percy Melville, B. A.	<i>Portland</i>	25 State St.
Colby College, 1901		
Brooks, Gerry Lynn	<i>Upton</i>	185 Pine St.

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Brown, Winfield Scott, B. A.	<i>Dexter</i>	3 Granite Block
Bates College, 1895		
Burnham, Elmer John	<i>Kittery</i>	239 Essex St.
Colby, James Adams	<i>Lynn, Mass.</i>	202 Union St.
Connors, Charles Patrick, B. A.	<i>Bangor</i>	354 State St.
Bowdoin College, 1903		
Cotton, Carl, B. A.	<i>Bangor</i>	125 Forest Ave.
Colby College, 1900		
Cowan, George Albert	<i>Hampden</i>	Hampden
Donnelly, James A.	<i>Houlton</i>	5 Maxim Court
Doyle, Frederick Eugene, B. A.	<i>Ellsworth</i>	85 Second St.
Holy Cross College, 1901		
Dunbar, Oscar Hall	<i>Jonesport</i>	28 Second St.
Fox, Lewis Edwin	<i>Lovell</i>	20 Everett St.
Harris, Moses Harry	<i>Auburn</i>	229 State St.
Hasty, Percy Albert	<i>Bangor</i>	202 Union St.
Laliberté, Joseph Alphonse	<i>Fort Kent</i>	239 Essex St.
Littlefield, Eben Frank	<i>Brooks</i>	5 Maxim Court
Moody, John Franklin, Jr., B. A.	<i>Auburn</i>	239 Essex St.
Colby College, 1900		
Pike, George William	<i>Lisbon, N. H.</i>	91 Fifth St.
Roix, William Richard	<i>Bucksport</i>	25 State St.
Swett, Lucius Black	<i>West Hollis</i>	74 Third St.
Warren, William Moncena, B. A.	<i>Bangor</i>	285 Center St.
Bowdoin College, 1901		

JUNIORS

Bangs, Harry Edgar	<i>Freedom</i>	301 Main St.
Benner, George Henry	<i>West Townsend, Mass.</i>	152 Second St.
Buckley, John		144 Ohio St.
Clark, Jerome Borden	<i>Union, Conn.</i>	71 Summer St.
DeWolfe, Robert William	<i>West Gouldsboro</i>	239 Essex St.
Dudley, John Perley	<i>Portland</i>	66 Charles St.
Colby College	<i>Mapleton</i>	
Finnigan, James Patrick	<i>Bangor</i>	12 Summer St.
Holman, William Harrison	<i>Dixfield</i>	316 Hammond St.
Keegan, John Joseph	<i>Lubec</i>	144 Ohio St.
Monroe, Edward Roy	<i>Portland</i>	105 Third St.
Moore, Charles Dana Clift	<i>Lynn, Mass.</i>	350 Hammond St.
O'Halloran, Thomas Henry	<i>Marlboro, Mass.</i>	76 Palm St.
University of Vermont		
Perry, Lawrence Swift	<i>New Bedford, Mass.</i>	125 Grove St.
.	160	

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FIRST YEAR STUDENTS

Blossom, Charles Albert Gooding	<i>New Bedford, Mass.</i>	315 Union St.
Burgess, Frank Beaumont	<i>Sangerville</i>	4 Center St. Ave.
Bye, Terschak Franzoir	<i>Kennebunk</i>	2 Union Pl.
Davidson, Edward Burleigh	<i>York Village</i>	29 Pond St.
Driscoll, George Alexander	<i>Springfield</i>	24 Ohio St.
Gardner, Silas Henry	<i>Brockton, Mass.</i>	Beta Theta Pi [House, Orono
Godfrey, Edward Rawson	<i>Bangor</i>	172 Kenduskeag Ave.
Bowdoin College, 1899		
Greeley, Harry Burton	<i>Hampden</i>	Hampden
Leary, Thomas Edward, B. S.	<i>East Hampden</i>	East Hampden
University of Maine, 1904		
Maxwell, James Davidson	<i>Bangor</i>	27 Grant St.
Nolan, Harry McDonald	<i>Haverhill, Mass.</i>	100 Ohio St.
Otis, Thomas	<i>New Bedford, Mass.</i>	315 Union St.
Rideout, Morton Howard	<i>Bangor</i>	P. O. Box 104
Ridlon, Horace Denver	<i>Stetson</i>	23 Jefferson St.
Skillin, Carroll Brown	<i>North Yarmouth</i>	50 Charles St.
Waldron, William Linscott, B. A.	<i>Waterville</i>	234 Center St.
Colby College, 1899		

SPECIAL STUDENTS

Chandler, Carroll Delwin	<i>Bangor</i>	22 Short St.
Clark, Dana Leander	<i>Belgrade Lakes</i>	4 Eaton Pl.
Comerford, Michael Joseph	<i>Worcester, Mass.</i>	201 Union St.
Farnsworth, Omar Libby	<i>Caribou</i>	183 Center St.
Lewis, Charles Goodell	<i>New Bedford, Mass.</i>	66 Charles St.

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GENERAL SUMMARY

FACULTY

Professors	33
Instructors	22
Lecturers	6
Assistants	10
<hr/>	
Total	71
 College of Arts and Sciences	34
College of Agriculture	34
College of Technology	39
College of Pharmacy	28
Agricultural Experiment Station	11
College of Law	14

Members of the general faculty are included in the faculties of the separate colleges when they give courses that are required therein.

STUDENTS

Graduate Students	12
Seniors	74
Juniors	113
Sophomores	81
Freshmen	131
Short Pharmacy, Second year	4
First year	9
	13

The University of Maine

Special Students		49
School of Agriculture, Second year	5	
First year	7	12
Summer Term		60
Short Agricultural		9
College of Law, Graduate Students	27	
Seniors	21	
Juniors	13	
First year	16	
Special Students	5	82
		—
		636
Duplicated		25
		—
Total		611

CLASSIFICATION BY RESIDENCE

Maine, by counties :

Androscoggin	27
Aroostook	25
Cumberland	47
Franklin	10
Hancock	24
Kennebec	26
Knox	13
Lincoln	14
Oxford	38
Penobscot	133
Piscataquis	24
Sagadahoc	5
Somerset	27
Waldo	20
Washington	40
York	28
	501

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	501

The University of Maine

California	I
Connecticut	6
Georgia	I
Illinois	I
Massachusetts	74
Missouri	I
New Hampshire	13
New York	2
Rhode Island	5
Cuba	I
New Brunswick	2
Nova Scotia	2
Peru	I
	—
	611

CLASSIFICATION BY COLLEGES

College of Arts and Sciences	117
College of Agriculture	40
College of Technology	353
College of Pharmacy	19
College of Law	82
	—
Total	611

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